
Name:	COUNTRY		
Type:	String		
Variable label:	Country or economy		
Unique values:	8		
Missing values:	0		
Value	Label	Freq.	Percent
Chile		2675	15.2%
Colombia		2398	13.7%
England		2033	11.6%
Germany		1140	6.5%
Japan		2501	14.2%
All other values		5396	30.7%

Name:	SCH_ID		
Type:	String		
Variable label:	School ID, IDCNTRY-IDSCHOOL		
Unique values:	613		
Missing values:	0		
Value	Label	Freq.	Percent
00152-0001		28	0.2%
00152-0002		26	0.1%
00152-0005		27	0.2%
00152-0007		35	0.2%
00152-0010		31	0.2%
All other values		17381	99.0%

Name:	T_ID		
Type:	String		
Variable label:	Teacher ID, IDCNTRY-IDSCHOOL-IDTEACH		
Unique values:	652		
Missing values:	0		
Value	Label	Freq.	Percent
00152-0001-0001		28	0.2%
00152-0002-0002		26	0.1%
00152-0005-0001		27	0.2%
00152-0007-0002		35	0.2%
00152-0010-0001		31	0.2%

All other values	17381	99.0%
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Name:	S_ID		
Type:	String		
Variable label:	Student ID, IDCNTRY-IDSCHOOL-IDTEACH-IDSTUDENT		
Unique values:	17,554		
Missing values:	0		
Value	Label	Freq.	Percent
00152-0001-0001-0001		1	0.0%
00152-0001-0001-0002		1	0.0%
00152-0001-0001-0003		1	0.0%
00152-0001-0001-0004		1	0.0%
00152-0001-0001-0006		1	0.0%
All other values		17548	100.0%

Name:	IDCNTRY		
Type:	Numeric		
Variable label:	Country ID		
Unique values:	8		
Missing values:	0		
Min:	152.00		
Mean:	373.97		
Max:	826.00		
Std. Dev.:	237.42		
Skew:	0.74		
Value	Label	Freq.	Percent
152		2675	15.2%
156		2613	14.9%
170		2398	13.7%
276		1140	6.5%
392		2501	14.2%
All other values		3444	19.6%

Percentiles:				
10%	25%	50%	75%	90%
152	156	276	276	826

Name:	IDSCHOOL
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Type: Numeric
 Variable label: School ID
 Unique values: 185
 Missing values: 0
 Min: 1.00
 Mean: 64.86
 Max: 312.00
 Std. Dev.: 63.60
 Skew: 2.00

Value	Label	Freq.	Percent
1		192	1.1%
2		252	1.4%
3		108	0.6%
4		126	0.7%
5		233	1.3%
All other values		16408	93.5%

Percentiles:

10%	25%	50%	75%	90%
9	25	48	48	157

Name: IDTEACH
 Type: Numeric
 Variable label: Teacher ID
 Unique values: 90
 Missing values: 0
 Min: 1.00
 Mean: 8.12
 Max: 94.00
 Std. Dev.: 19.88
 Skew: 2.98

Value	Label	Freq.	Percent
1		13090	74.6%
2		1148	6.5%
3		384	2.2%
4		261	1.5%
5		102	0.6%
All other values		2403	13.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	29

Name:	IDSTUDENT			
Type:	Numeric			
Variable label:	Student ID			
Unique values:	51			
Missing values:	0			
Min:	1.00			
Mean:	16.14			
Max:	51.00			
Std. Dev.:	10.03			
Skew:	0.45			

Value	Label	Freq.	Percent	
1		601	3.4%	
2		606	3.5%	
3		605	3.4%	
4		611	3.5%	
5		599	3.4%	
All other values		13938	79.4%	

Percentiles:				
10%	25%	50%	75%	90%
3	8	15	15	30

Name:	SQA01			
Type:	Numeric			
Variable label:	1. What year group are you in? (Please tick one box)			
Unique values:	10			
Missing values:	0			
Min:	1.00			
Mean:	2.87			
Max:	8.00			
Std. Dev.:	1.05			
Skew:	1.08			

Value	Label	Freq.	Percent	
1		696	4.0%	
2		5632	32.1%	
3		7674	43.7%	
4		505	2.9%	
5		1961	11.2%	
All other values		1049	6.0%	

Percentiles:				
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10%	25%	50%	75%	90%
2	2	3	3	5

Name: SQA03
Type: Numeric
Variable label: 3. Are you female or male?
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.49
Max: 2.00
Std. Dev.: 0.50
Skew: 0.02

Value	Label	Freq.	Percent
1	Female	8372	47.7%
2	Male	8191	46.7%
9998	Multiple responses	1	0.0%
9999	Missing	990	5.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA04Y
Type: Numeric
Variable label: 4. In what country were you born?
Unique values: 15
Missing values: 0
Min: 1.00
Mean: 1.15
Max: 13.00
Std. Dev.: 0.85
Skew: 8.85

Value	Label	Freq.	Percent
1		15358	87.5%
2		613	3.5%
3		105	0.6%
4		27	0.2%
5		50	0.3%
All other values		1372	7.8%

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	1

Name:	SQA04M		
Type:	Numeric		
Variable label:	4. In what country was your mother born?		
Unique values:	15		
Missing values:	0		
Min:	1.00		
Mean:	1.43		
Max:	13.00		
Std. Dev.:	1.57		
Skew:	5.22		
Value	Label	Freq.	Percent
1		13918	79.3%
2		1504	8.6%
3		239	1.4%
4		86	0.5%
5		88	0.5%
All other values		1671	9.5%

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	2

Name:	SQA04F		
Type:	Numeric		
Variable label:	4. In what country was your father born?		
Unique values:	16		
Missing values:	0		
Min:	1.00		
Mean:	1.40		
Max:	13.00		
Std. Dev.:	1.55		
Skew:	5.34		
Value	Label	Freq.	Percent
1		14200	80.9%
2		1136	6.5%
3		245	1.4%
4		98	0.6%

5	87	0.5%
All other values	1744	9.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA05
Type: Numeric
Variable label: 5. What language do you speak at home most of the time?
Unique values: 13
Missing values: 0
Min: 1.00
Mean: 1.14
Max: 10.00
Std. Dev.: 0.73
Skew: 7.94

Value	Label	Freq.	Percent
1		15454	88.0%
2		575	3.3%
3		137	0.8%
4		21	0.1%
5		179	1.0%
All other values		1170	6.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: SQA06A
Type: Numeric
Variable label: 6.a. Learning advanced mathematics topics would be easy for me.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.54
Max: 4.00
Std. Dev.: 0.77
Skew: -0.12

Value	Label	Freq.	Percent
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1	Strongly disagree	1422	8.1%
2	Disagree	6198	35.3%
3	Agree	7415	42.2%
4	Strongly agree	1458	8.3%
9999	Missing	1061	6.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	3

Name:	SQA06B		
Type:	Numeric		
Variable label:	6.b. I can usually give good answers to test questions on mathematic topics.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.73		
Max:	4.00		
Std. Dev.:	0.73		
Skew:	-0.23		
Value	Label	Freq.	Percent
1	Strongly disagree	714	4.1%
2	Disagree	4992	28.4%
3	Agree	8778	50.0%
4	Strongly agree	2001	11.4%
9999	Missing	1069	6.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQA06C		
Type:	Numeric		
Variable label:	6.c. I learn mathematic topics quickly.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.74		
Max:	4.00		
Std. Dev.:	0.79		

Skew:	-0.13		
Value	Label	Freq.	Percent
1	Strongly disagree	855	4.9%
2	Disagree	5273	30.0%
3	Agree	7590	43.2%
4	Strongly agree	2756	15.7%
9999	Missing	1080	6.2%

Percentiles:				
10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQA06D		
Type:	Numeric		
Variable label:	6.d. Mathematic topics are easy for me.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.59		
Max:	4.00		
Std. Dev.:	0.79		
Skew:	0.02		
Value	Label	Freq.	Percent
1	Strongly disagree	1155	6.6%
2	Disagree	6432	36.6%
3	Agree	6827	38.9%
4	Strongly agree	2032	11.6%
9999	Missing	1108	6.3%

Percentiles:				
10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQA06E		
Type:	Numeric		
Variable label:	6.e. When I am being taught mathematics, I can understand the concepts very well.		
Unique values:	5		
Missing values:	0		
Min:	1.00		

Mean: 2.89
Max: 4.00
Std. Dev.: 0.75
Skew: -0.30

Value	Label	Freq.	Percent
1	Strongly disagree	555	3.2%
2	Disagree	3976	22.7%
3	Agree	8742	49.8%
4	Strongly agree	3201	18.2%
9999	Missing	1080	6.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA06F
Type: Numeric
Variable label: 6.f. I can easily understand new ideas in mathematics.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.73
Max: 4.00
Std. Dev.: 0.78
Skew: -0.14

Value	Label	Freq.	Percent
1	Strongly disagree	816	4.6%
2	Disagree	5293	30.2%
3	Agree	7850	44.7%
4	Strongly agree	2519	14.4%
9999	Missing	1076	6.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA07A
Type: Numeric
Variable label: 7.a. My goal is to learn as much as possible in mathematics.
Unique values: 5

Missing values: 0
 Min: 1.00
 Mean: 2.87
 Max: 4.00
 Std. Dev.: 0.88
 Skew: -0.20

Value	Label	Freq.	Percent
1	Not at all true of me	883	5.0%
2	Slightly true of me	5037	28.7%
3	Very true of me	6025	34.3%
4	Extremely true of me	4592	26.2%
9999	Missing	1017	5.8%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA07B
Type: Numeric
Variable label: 7.b. My goal is to completely master the material presented in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.95
Max: 4.00
Std. Dev.: 0.89
Skew: -0.38

Value	Label	Freq.	Percent
1	Not at all true of me	915	5.2%
2	Slightly true of me	4183	23.8%
3	Very true of me	6177	35.2%
4	Extremely true of me	5241	29.9%
9999	Missing	1038	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA07C

Type: Numeric
 Variable label: 7.c. My goal is to understand the content of my mathematics class as thoroughly as possible.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.15
 Max: 4.00
 Std. Dev.: 0.83
 Skew: -0.66

Value	Label	Freq.	Percent
1	Not at all true of me	589	3.4%
2	Slightly true of me	2877	16.4%
3	Very true of me	6472	36.9%
4	Extremely true of me	6579	37.5%
9999	Missing	1037	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA08A
 Type: Numeric
 Variable label: 8.a. To what extent do you agree: Making an effort in mathematics is worth it because it will help me in the work that I want to do later on.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.17
 Max: 4.00
 Std. Dev.: 0.80
 Skew: -0.75

Value	Label	Freq.	Percent
1	Strongly disagree	605	3.4%
2	Disagree	2346	13.4%
3	Agree	7136	40.7%
4	Strongly agree	6443	36.7%
9999	Missing	1024	5.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA08B
Type: Numeric
Variable label: 8.b. To what extent do you agree: Learning mathematics is worthwhile for me because it will improve my career prospects.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.25
Max: 4.00
Std. Dev.: 0.74
Skew: -0.77

Value	Label	Freq.	Percent
1	Strongly disagree	385	2.2%
2	Disagree	1811	10.3%
3	Agree	7661	43.6%
4	Strongly agree	6660	37.9%
9999	Missing	1037	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA08C
Type: Numeric
Variable label: 8.c. To what extent do you agree: Mathematics is an important subject for me because I need it for what I want to study later on.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.02
Max: 4.00
Std. Dev.: 0.88
Skew: -0.52

Value	Label	Freq.	Percent
1	Strongly disagree	920	5.2%
2	Disagree	3511	20.0%
3	Agree	6436	36.7%
4	Strongly agree	5638	32.1%
9999	Missing	1049	6.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA08D
Type: Numeric
Variable label: 8.d. To what extent do you agree: I will learn many things in mathematics that will help me get a job.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.06
Max: 4.00
Std. Dev.: 0.81
Skew: -0.58

Value	Label	Freq.	Percent
1	Strongly disagree	670	3.8%
2	Disagree	2887	16.4%
3	Agree	7682	43.8%
4	Strongly agree	5279	30.1%
9999	Missing	1036	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA09A
Type: Numeric
Variable label: 9.a. How often do these things apply to you: When I study mathematics, I work as hard as possible.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.93
Max: 4.00
Std. Dev.: 0.82
Skew: -0.18

Value	Label	Freq.	Percent
1	Almost never	473	2.7%
2	Sometimes	4750	27.1%
3	Often	6781	38.6%
4	Almost always	4520	25.7%

9999 Missing 1030 5.9%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: **SQA09B**
Type: Numeric
Variable label: 9.b. How often do these things apply to you: When I study mathematics, I keep working even if the material is difficult.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.93
Max: 4.00
Std. Dev.: 0.87
Skew: -0.26

Value	Label	Freq.	Percent
1	Almost never	711	4.1%
2	Sometimes	4677	26.6%
3	Often	6187	35.2%
4	Almost always	4952	28.2%
9999	Missing	1027	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: **SQA09C**
Type: Numeric
Variable label: 9.c. How often do these things apply to you: When I study mathematics, I try to do my best to acquire the knowledge and skills taught.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.12
Max: 4.00
Std. Dev.: 0.81
Skew: -0.52

Value	Label	Freq.	Percent
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1	Almost never	444	2.5%
2	Sometimes	3290	18.7%
3	Often	6665	38.0%
4	Almost always	6123	34.9%
9999	Missing	1032	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA09D
Type: Numeric
Variable label: 9.d. How often do these things apply to you: When I study mathematics, I put forth my best effort.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.17
Max: 4.00
Std. Dev.: 0.82
Skew: -0.60

Value	Label	Freq.	Percent
1	Almost never	440	2.5%
2	Sometimes	3107	17.7%
3	Often	6245	35.6%
4	Almost always	6729	38.3%
9999	Missing	1033	5.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA10A
Type: Numeric
Variable label: 10.a. To what extent do you agree: I often worry that it will be difficult for me taking a mathematics test.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.91

Max: 4.00
Std. Dev.: 0.89
Skew: -0.48

Value	Label	Freq.	Percent
1	Strongly disagree	1261	7.2%
2	Disagree	3571	20.3%
3	Agree	7040	40.1%
4	Strongly agree	4673	26.6%
9999	Missing	1009	5.7%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA10B

Type: Numeric

Variable label: 10.b. To what extent do you agree: Even if I am well prepared for a mathematics test I feel very anxious.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.85

Max: 4.00

Std. Dev.: 0.96

Skew: -0.45

Value	Label	Freq.	Percent
1	Strongly disagree	1859	10.6%
2	Disagree	3515	20.0%
3	Agree	6485	36.9%
4	Strongly agree	4671	26.6%
9999	Missing	1024	5.8%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA10C

Type: Numeric

Variable label: 10.c. To what extent do you agree: I get very tense when I study for a mathematics test.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.49
 Max: 4.00
 Std. Dev.: 0.99
 Skew: 0.01

Value	Label	Freq.	Percent
1	Strongly disagree	3106	17.7%
2	Disagree	5235	29.8%
3	Agree	5205	29.7%
4	Strongly agree	2982	17.0%
9999	Missing	1026	5.8%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA11
Type: Numeric
Variable label: 11. Since when have you had your CURRENT mathematics teacher?
 Unique values: 4
 Missing values: 0
 Min: 1.00
 Mean: 1.68
 Max: 3.00
 Std. Dev.: 0.84
 Skew: 0.65

Value	Label	Freq.	Percent
1	This school year	9204	52.4%
2	Last school year	3305	18.8%
3	Before the last school year	3974	22.6%
9999	Missing	1071	6.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQA12A

Type: Numeric
 Variable label: 12.a. PREVIOUS mathematics teacher: I was interested in mathematics.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.81
 Max: 4.00
 Std. Dev.: 0.88
 Skew: -0.35

Value	Label	Freq.	Percent
1	Strongly disagree	1373	7.8%
2	Disagree	4128	23.5%
3	Agree	7244	41.3%
4	Strongly agree	3732	21.3%
9999	Missing	1077	6.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA12B
 Type: Numeric
 Variable label: 12.b. PREVIOUS mathematics teacher: I often thought that what we were talking about in my mathematics class was interesting.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.70
 Max: 4.00
 Std. Dev.: 0.86
 Skew: -0.20

Value	Label	Freq.	Percent
1	Strongly disagree	1437	8.2%
2	Disagree	5016	28.6%
3	Agree	7083	40.3%
4	Strongly agree	2906	16.6%
9999	Missing	1112	6.3%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA12C
Type: Numeric
Variable label: 12.c. PREVIOUS mathematics teacher: After mathematics class I was often already curious about the next mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.33
Max: 4.00
Std. Dev.: 0.88
Skew: 0.28

Value	Label	Freq.	Percent
1	Strongly disagree	2763	15.7%
2	Disagree	7364	42.0%
3	Agree	4514	25.7%
4	Strongly agree	1796	10.2%
9999	Missing	1117	6.4%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA12D
Type: Numeric
Variable label: 12.d. PREVIOUS mathematics teacher: I wanted to deal more intensively with some topics discussed in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.53
Max: 4.00
Std. Dev.: 0.88
Skew: -0.02

Value	Label	Freq.	Percent
1	Strongly disagree	2068	11.8%
2	Disagree	5917	33.7%
3	Agree	6149	35.0%
4	Strongly agree	2314	13.2%
9999	Missing	1106	6.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA13A
Type: Numeric
Variable label: 13.a. PREVIOUS mathematics teacher: I believed I would receive an excellent mark in mathematics.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.44
Max: 4.00
Std. Dev.: 0.95
Skew: 0.10

Value	Label	Freq.	Percent
1	Not at all true of me	2903	16.5%
2	Slightly true of me	5956	33.9%
3	Very true of me	5020	28.6%
4	Extremely true of me	2564	14.6%
9999	Missing	1111	6.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA13B
Type: Numeric
Variable label: 13.b. PREVIOUS mathematics teacher: I was confident I could understand the most difficult material on mathematics.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.32
Max: 4.00
Std. Dev.: 0.97
Skew: 0.18

Value	Label	Freq.	Percent
1	Not at all true of me	3798	21.6%
2	Slightly true of me	5747	32.7%
3	Very true of me	4794	27.3%
4	Extremely true of me	2092	11.9%

9999 Missing 1123 6.4%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: **SQA13C**
Type: Numeric
Variable label: 13.c. PREVIOUS mathematics teacher: I was confident I could do an excellent job on the mathematics assignments and tests.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.48
Max: 4.00
Std. Dev.: 0.96
Skew: 0.02

Value	Label	Freq.	Percent
1	Not at all true of me	2834	16.1%
2	Slightly true of me	5504	31.4%
3	Very true of me	5417	30.9%
4	Extremely true of me	2655	15.1%
9999	Missing	1144	6.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: **SQA13D**
Type: Numeric
Variable label: 13.d. PREVIOUS mathematics teacher: I expected to do well in mathematics.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.84
Max: 4.00
Std. Dev.: 0.98
Skew: -0.46

Value	Label	Freq.	Percent
1	Not at all true of me	2026	11.5%

2	Slightly true of me	3381	19.3%
3	Very true of me	6198	35.3%
4	Extremely true of me	4820	27.5%
9999	Missing	1129	6.4%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA13E
Type: Numeric
Variable label: 13.e. PREVIOUS mathematics teacher: I was confident I could master the mathematics skills being taught.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.67
Max: 4.00
Std. Dev.: 0.94
Skew: -0.15

Value	Label	Freq.	Percent
1	Not at all true of me	1953	11.1%
2	Slightly true of me	5051	28.8%
3	Very true of me	5971	34.0%
4	Extremely true of me	3456	19.7%
9999	Missing	1123	6.4%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA14A
Type: Numeric
Variable label: 14.a. CURRENT mathematics teacher: I am interested in mathematics.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.01
Max: 4.00
Std. Dev.: 0.81

Skew:	-0.61		
Value	Label	Freq.	Percent
1	Strongly disagree	865	4.9%
2	Disagree	2766	15.8%
3	Agree	8247	47.0%
4	Strongly agree	4663	26.6%
9999	Missing	1013	5.8%

Percentiles:				
10%	25%	50%	75%	90%
2	3	3	3	4

Name:	SQA14B		
Type:	Numeric		
Variable label:	14.b. CURRENT mathematics teacher: I often think that what we are talking about in my mathematics class is interesting.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.88		
Max:	4.00		
Std. Dev.:	0.83		
Skew:	-0.38		
Value	Label	Freq.	Percent
1	Strongly disagree	967	5.5%
2	Disagree	3912	22.3%
3	Agree	7776	44.3%
4	Strongly agree	3855	22.0%
9999	Missing	1044	5.9%

Percentiles:				
10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQA14C		
Type:	Numeric		
Variable label:	14.c. CURRENT mathematics teacher: After mathematics class I am often already curious about the next mathematics class.		
Unique values:	5		
Missing values:	0		

Min: 1.00
 Mean: 2.51
 Max: 4.00
 Std. Dev.: 0.89
 Skew: 0.11

Value	Label	Freq.	Percent
1	Strongly disagree	2004	11.4%
2	Disagree	6635	37.8%
3	Agree	5351	30.5%
4	Strongly agree	2527	14.4%
9999	Missing	1037	5.9%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA14D
Type: Numeric
Variable label: 14.d. CURRENT mathematics teacher: I would like to deal more intensively with some topics discussed in my mathematics class.
Unique values: 5
Missing values: 0
 Min: 1.00
 Mean: 2.74
 Max: 4.00
 Std. Dev.: 0.89
 Skew: -0.25

Value	Label	Freq.	Percent
1	Strongly disagree	1514	8.6%
2	Disagree	4684	26.7%
3	Agree	6895	39.3%
4	Strongly agree	3413	19.4%
9999	Missing	1048	6.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA15A
Type: Numeric

Variable label: 15.a. CURRENT mathematics teacher: I believe I will receive an excellent mark in mathematics

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.50
Max: 4.00
Std. Dev.: 0.94
Skew: 0.04

Value	Label	Freq.	Percent
1	Not at all true of me	2423	13.8%
2	Slightly true of me	5830	33.2%
3	Very true of me	5260	30.0%
4	Extremely true of me	2614	14.9%
9999	Missing	1427	8.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA15B

Type: Numeric

Variable label: 15.b. CURRENT mathematics teacher: I'm confident I can understand the most difficult material on mathematics

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.47
Max: 4.00
Std. Dev.: 0.95
Skew: -0.01

Value	Label	Freq.	Percent
1	Not at all true of me	2911	16.6%
2	Slightly true of me	5398	30.8%
3	Very true of me	5700	32.5%
4	Extremely true of me	2490	14.2%
9999	Missing	1055	6.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA15C
Type: Numeric
Variable label: 15.c. CURRENT mathematics teacher: I'm confident I can do an excellent job on the mathematics assignments and tests
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.60
Max: 4.00
Std. Dev.: 0.94
Skew: -0.11

Value	Label	Freq.	Percent
1	Not at all true of me	2225	12.7%
2	Slightly true of me	5167	29.4%
3	Very true of me	6006	34.2%
4	Extremely true of me	3089	17.6%
9999	Missing	1067	6.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA15D
Type: Numeric
Variable label: 15.d. CURRENT mathematics teacher: I expect to do well in mathematics
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.93
Max: 4.00
Std. Dev.: 0.97
Skew: -0.55

Value	Label	Freq.	Percent
1	Not at all true of me	1726	9.8%
2	Slightly true of me	3176	18.1%
3	Very true of me	6133	34.9%
4	Extremely true of me	5458	31.1%
9999	Missing	1061	6.0%

Percentiles:

10%	25%	50%	75%	90%

1 2 3 3 4

Name: SQA15E
Type: Numeric
Variable label: 15.e. CURRENT mathematics teacher: I'm confident I can master the mathematics skills being taught
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.77
Max: 4.00
Std. Dev.: 0.91
Skew: -0.26

Value	Label	Freq.	Percent
1	Not at all true of me	1531	8.7%
2	Slightly true of me	4645	26.5%
3	Very true of me	6437	36.7%
4	Extremely true of me	3881	22.1%
9999	Missing	1060	6.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA16A1
Type: Numeric
Variable label: 16.1.a. Ever encountered task: Using a train timetable to work out how long it would take to get from one place to another.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.26
Max: 2.00
Std. Dev.: 0.44
Skew: 1.11

Value	Label	Freq.	Percent
1	Yes	12171	69.3%
2	No	4213	24.0%
9999	Missing	1170	6.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA16B1

Type: Numeric

Variable label: 16.1.b. Ever encountered task: Calculating how much cheaper a TV would be after a 30% discount.

Unique values: 3

Missing values: 0

Min: 1.00

Mean: 1.11

Max: 2.00

Std. Dev.: 0.32

Skew: 2.42

Value	Label	Freq.	Percent
1	Yes	14508	82.6%
2	No	1872	10.7%
9999	Missing	1174	6.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA16C1

Type: Numeric

Variable label: 16.1.c. Ever encountered task: Calculating how many square metres of tiles you need to cover a floor.

Unique values: 3

Missing values: 0

Min: 1.00

Mean: 1.17

Max: 2.00

Std. Dev.: 0.38

Skew: 1.71

Value	Label	Freq.	Percent
1	Yes	13479	76.8%
2	No	2854	16.3%
9999	Missing	1221	7.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA16D1
Type: Numeric
Variable label: 16.1.d. Ever encountered task: Solving an equation like $3x+5= 17$.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.05
Max: 2.00
Std. Dev.: 0.21
Skew: 4.29

Value	Label	Freq.	Percent
1	Yes	15600	88.9%
2	No	767	4.4%
9999	Missing	1187	6.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: SQA16E1
Type: Numeric
Variable label: 16.1.e. Ever encountered task: Solving an equation like $2(x+3) = (x + 3) (x - 3)$.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.10
Max: 2.00
Std. Dev.: 0.30
Skew: 2.60

Value	Label	Freq.	Percent
1	Yes	14644	83.4%
2	No	1692	9.6%
9999	Missing	1218	6.9%

Percentiles:

10%	25%	50%	75%	90%
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1

1

1

1

2

Name: SQA16F1

Type: Numeric

Variable label: 16.1.f. Ever encountered task: Plotting the graph of $y = x^2$.

Unique values: 3

Missing values: 0

Min: 1.00

Mean: 1.31

Max: 2.00

Std. Dev.: 0.46

Skew: 0.82

Value	Label	Freq.	Percent
1	Yes	11248	64.1%
2	No	5050	28.8%
9999	Missing	1256	7.2%

Percentiles:

10%

25%

50%

75%

90%

1

1

1

1

2

Name: SQA16G1

Type: Numeric

Variable label: 16.1.g. Ever encountered task: Solving a problem like $??2 - 4 = 0$ by inspection.

Unique values: 3

Missing values: 0

Min: 1.00

Mean: 1.29

Max: 2.00

Std. Dev.: 0.45

Skew: 0.93

Value	Label	Freq.	Percent
1	Yes	11569	65.9%
2	No	4716	26.9%
9999	Missing	1269	7.2%

Percentiles:

10%

25%

50%

75%

90%

1

1

1

1

2

Name: SQA16H1
Type: Numeric
Variable label: 16.1.h. Ever encountered task: Finding all values of x for which $(x - 4)(x + 5) = 0$

Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.16
Max: 2.00
Std. Dev.: 0.37
Skew: 1.87

Value	Label	Freq.	Percent
1	Yes	13732	78.2%
2	No	2588	14.7%
9999	Missing	1234	7.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA16I1
Type: Numeric
Variable label: 16.1.i. Ever encountered task: Using the binomial formula $(a+b)^2=a^2+2ab+b^2$ when solving a problem like $??^2 + 6?? + 9 = 0$.

Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.26
Max: 2.00
Std. Dev.: 0.44
Skew: 1.09

Value	Label	Freq.	Percent
1	Yes	12080	68.8%
2	No	4245	24.2%
9999	Missing	1229	7.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA16J1
Type: Numeric
Variable label: 16.1.j. Ever encountered task: Solving any quadratic equation (example: $4x^2+6x+3 = 0$).
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.28
Max: 2.00
Std. Dev.: 0.45
Skew: 0.99

Value	Label	Freq.	Percent
1	Yes	11760	67.0%
2	No	4540	25.9%
9999	Missing	1254	7.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA16A2
Type: Numeric
Variable label: 16.2.a. How confident: Using a train timetable to work out how long it would take to get from one place to another.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.95
Max: 4.00
Std. Dev.: 0.87
Skew: -0.47

Value	Label	Freq.	Percent
1	Not at all confident	1022	5.8%
2	Not very confident	3484	19.8%
3	Confident	6932	39.5%
4	Very confident	4664	26.6%
9999	Missing	1452	8.3%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQA16B2		
Type:	Numeric		
Variable label:	16.2.b. How confident: Calculating how much cheaper a TV would be after a 30% discount.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	3.10		
Max:	4.00		
Std. Dev.:	0.87		
Skew:	-0.65		
Value	Label	Freq.	Percent
1	Not at all confident	807	4.6%
2	Not very confident	2939	16.7%
3	Confident	6310	35.9%
4	Very confident	6162	35.1%
9999	Missing	1336	7.6%

Percentiles:				
10%	25%	50%	75%	90%
2	3	3	3	4

Name:	SQA16C2		
Type:	Numeric		
Variable label:	16.2.c. How confident: Calculating how many square metres of tiles you need to cover a floor.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.92		
Max:	4.00		
Std. Dev.:	0.90		
Skew:	-0.38		
Value	Label	Freq.	Percent
1	Not at all confident	1065	6.1%
2	Not very confident	4023	22.9%
3	Confident	6256	35.6%
4	Very confident	4794	27.3%

9999 Missing 1416 8.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: **SQA16D2**
Type: Numeric
Variable label: 16.2.d. How confident: Solving an equation like $3x+5= 17$.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.28
Max: 4.00
Std. Dev.: 0.85
Skew: -0.95

Value	Label	Freq.	Percent
1	Not at all confident	653	3.7%
2	Not very confident	2287	13.0%
3	Confident	5282	30.1%
4	Very confident	8078	46.0%
9999	Missing	1254	7.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: **SQA16E2**
Type: Numeric
Variable label: 16.2.e. How confident: Solving an equation like $2(x+3) = (x + 3) (x - 3)$.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.93
Max: 4.00
Std. Dev.: 0.93
Skew: -0.41

Value	Label	Freq.	Percent
1	Not at all confident	1184	6.7%
2	Not very confident	3992	22.7%

3	Confident	5797	33.0%
4	Very confident	5215	29.7%
9999	Missing	1366	7.8%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA16F2

Type: Numeric

Variable label: 16.2.f. How confident: Plotting the graph of $y = x^2$.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.60

Max: 4.00

Std. Dev.: 0.95

Skew: -0.09

Value	Label	Freq.	Percent
1	Not at all confident	2193	12.5%
2	Not very confident	5078	28.9%
3	Confident	5520	31.4%
4	Very confident	3094	17.6%
9999	Missing	1669	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA16G2

Type: Numeric

Variable label: 16.2.g. How confident: Solving a problem like $??2 - 4 = 0$ by inspection.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.62

Max: 4.00

Std. Dev.: 0.99

Skew: -0.09

Value	Label	Freq.	Percent
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1	Not at all confident	2354	13.4%
2	Not very confident	4947	28.2%
3	Confident	5011	28.5%
4	Very confident	3566	20.3%
9999	Missing	1676	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA16H2
Type: Numeric
Variable label: 16.2.h. How confident: Finding all values of x for which $(x - 4)(x + 5) = 0$.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.80
Max: 4.00
Std. Dev.: 0.94
Skew: -0.29

Value	Label	Freq.	Percent
1	Not at all confident	1534	8.7%
2	Not very confident	4409	25.1%
3	Confident	5836	33.2%
4	Very confident	4295	24.5%
9999	Missing	1480	8.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA16I2
Type: Numeric
Variable label: 16.2.i. How confident: Using the binomial formula $(a+b)^2=a^2+2ab+b^2$ when solving a problem like $??^2 + 6?? + 9 = 0$.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.64
Max: 4.00

Std. Dev.: 1.07
Skew: -0.16

Value	Label	Freq.	Percent
1	Not at all confident	2993	17.1%
2	Not very confident	4128	23.5%
3	Confident	4582	26.1%
4	Very confident	4312	24.6%
9999	Missing	1539	8.8%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA16J2

Type: Numeric

Variable label: 16.2.j. How confident: Solving any quadratic equation (example: $4x^2+6x+3=0$).

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.60

Max: 4.00

Std. Dev.: 1.00

Skew: -0.11

Value	Label	Freq.	Percent
1	Not at all confident	2556	14.6%
2	Not very confident	4728	26.9%
3	Confident	5174	29.5%
4	Very confident	3517	20.0%
9999	Missing	1579	9.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA17A

Type: Numeric

Variable label: 17.a. During math instruction: to what extent do you agree: I try to work out what the most important parts to learn are.

Unique values: 5

Missing values: 0
Min: 1.00
Mean: 3.11
Max: 4.00
Std. Dev.: 0.63
Skew: -0.50

Value	Label	Freq.	Percent
1	Strongly disagree	278	1.6%
2	Disagree	1606	9.1%
3	Agree	10569	60.2%
4	Strongly agree	4044	23.0%
9999	Missing	1057	6.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA17B
Type: Numeric
Variable label: 17.b. During math instruction: to what extent do you agree: I start by working out exactly what I need to do.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.03
Max: 4.00
Std. Dev.: 0.68
Skew: -0.40

Value	Label	Freq.	Percent
1	Strongly disagree	315	1.8%
2	Disagree	2637	15.0%
3	Agree	9724	55.4%
4	Strongly agree	3796	21.6%
9999	Missing	1082	6.2%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA17C

Type: Numeric
 Variable label: 17.c. During math instruction: to what extent do you agree: I try to understand new concepts by relating them to things I already know.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.05
 Max: 4.00
 Std. Dev.: 0.72
 Skew: -0.43

Value	Label	Freq.	Percent
1	Strongly disagree	355	2.0%
2	Disagree	2731	15.6%
3	Agree	9034	51.5%
4	Strongly agree	4343	24.7%
9999	Missing	1091	6.2%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA17D
 Type: Numeric
 Variable label: 17.d. During math instruction: to what extent do you agree: I keep thinking about tasks until I really understand them.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.96
 Max: 4.00
 Std. Dev.: 0.76
 Skew: -0.31

Value	Label	Freq.	Percent
1	Strongly disagree	460	2.6%
2	Disagree	3731	21.3%
3	Agree	8297	47.3%
4	Strongly agree	3963	22.6%
9999	Missing	1103	6.3%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA17E
Type: Numeric
Variable label: 17.e. During math instruction: to what extent do you agree: I think intensively about the mathematical content.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.77
Max: 4.00
Std. Dev.: 0.77
Skew: -0.11

Value	Label	Freq.	Percent
1	Strongly disagree	654	3.7%
2	Disagree	5204	29.6%
3	Agree	7847	44.7%
4	Strongly agree	2761	15.7%
9999	Missing	1088	6.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA17F
Type: Numeric
Variable label: 17.f. During math instruction: to what extent do you agree: I develop my own ideas regarding the topic taught.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.75
Max: 4.00
Std. Dev.: 0.80
Skew: -0.12

Value	Label	Freq.	Percent
1	Strongly disagree	837	4.8%
2	Disagree	5319	30.3%
3	Agree	7452	42.5%
4	Strongly agree	2846	16.2%
9999	Missing	1100	6.3%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA17G
Type: Numeric
Variable label: 17.g. During math instruction: to what extent do you agree: I feel that I can decide on things on my own.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.89
Max: 4.00
Std. Dev.: 0.79
Skew: -0.32

Value	Label	Freq.	Percent
1	Strongly disagree	691	3.9%
2	Disagree	4028	22.9%
3	Agree	8159	46.5%
4	Strongly agree	3550	20.2%
9999	Missing	1126	6.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA17H
Type: Numeric
Variable label: 17.h. During math instruction: to what extent do you agree: I feel understood by my mathematics teacher.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.00
Max: 4.00
Std. Dev.: 0.83
Skew: -0.59

Value	Label	Freq.	Percent
1	Strongly disagree	937	5.3%
2	Disagree	2893	16.5%
3	Agree	7844	44.7%
4	Strongly agree	4761	27.1%

9999 Missing 1119 6.4%

Percentiles:					
	10%	25%	50%	75%	90%
	2	3	3	3	4

Name: **SQA17I**
Type: Numeric
Variable label: 17.i. During math instruction: to what extent do you agree: I feel confident in my ability to learn this material.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.98
Max: 4.00
Std. Dev.: 0.81
Skew: -0.50

Value	Label	Freq.	Percent
1	Strongly disagree	792	4.5%
2	Disagree	3243	18.5%
3	Agree	7916	45.1%
4	Strongly agree	4501	25.6%
9999	Missing	1102	6.3%

Percentiles:					
	10%	25%	50%	75%	90%
	2	3	3	3	4

Name: **SQA17J**
Type: Numeric
Variable label: 17.j. During math instruction: to what extent do you agree: I pay attention in mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.20
Max: 4.00
Std. Dev.: 0.69
Skew: -0.61

Value	Label	Freq.	Percent
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1	Strongly disagree	282	1.6%
2	Disagree	1705	9.7%
3	Agree	8825	50.3%
4	Strongly agree	5632	32.1%
9999	Missing	1110	6.3%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA17K
Type: Numeric
Variable label: 17.k. During math instruction: to what extent do you agree: I listen to the instruction given in class.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.28

Max: 4.00

Std. Dev.: 0.65

Skew: -0.63

Value	Label	Freq.	Percent
1	Strongly disagree	208	1.2%
2	Disagree	1145	6.5%
3	Agree	8864	50.5%
4	Strongly agree	6222	35.4%
9999	Missing	1115	6.4%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	4

Name: SQA17L
Type: Numeric
Variable label: 17.l. During math instruction: to what extent do you agree: I let my mind wander during the lessons.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.28

Max: 4.00
Std. Dev.: 0.88
Skew: 0.20

Value	Label	Freq.	Percent
1	Strongly disagree	3289	18.7%
2	Disagree	6723	38.3%
3	Agree	4943	28.2%
4	Strongly agree	1460	8.3%
9999	Missing	1139	6.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	3

Name: SQA18A
Type: Numeric
Variable label: 18.a. How often: Our mathematics teacher presents a summary of recently learned content.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.94
Max: 4.00
Std. Dev.: 0.91
Skew: -0.40

Value	Label	Freq.	Percent
1	Never or almost never	1059	6.0%
2	Occasionally	4109	23.4%
3	Frequently	6021	34.3%
4	Always	5286	30.1%
9999	Missing	1079	6.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA18B
Type: Numeric
Variable label: 18.b. How often: Our mathematics teacher sets goals at the beginning of instruction.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.97
 Max: 4.00
 Std. Dev.: 1.01
 Skew: -0.56

Value	Label	Freq.	Percent
1	Never or almost never	1755	10.0%
2	Occasionally	3369	19.2%
3	Frequently	4960	28.3%
4	Always	6377	36.3%
9999	Missing	1093	6.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA18C
Type: Numeric
Variable label: 18.c. How often: Our mathematics teacher explains what he/she expects us to learn.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.26
 Max: 4.00
 Std. Dev.: 0.87
 Skew: -0.97

Value	Label	Freq.	Percent
1	Never or almost never	803	4.6%
2	Occasionally	2202	12.5%
3	Frequently	5414	30.8%
4	Always	8012	45.6%
9999	Missing	1123	6.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA18D
Type: Numeric
Variable label: 18.d. How often: Our mathematics teacher explains how new and old topics are related.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.19
Max: 4.00
Std. Dev.: 0.86
Skew: -0.80

Value	Label	Freq.	Percent
1	Never or almost never	756	4.3%
2	Occasionally	2624	14.9%
3	Frequently	5829	33.2%
4	Always	7204	41.0%
9999	Missing	1141	6.5%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA18E
Type: Numeric
Variable label: 18.e. How often: Our mathematics teacher presents tasks for which there is no obvious solution.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.24
Max: 4.00
Std. Dev.: 1.06
Skew: 0.29

Value	Label	Freq.	Percent
1	Never or almost never	5199	29.6%
2	Occasionally	4596	26.2%
3	Frequently	4077	23.2%
4	Always	2507	14.3%
9999	Missing	1175	6.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: SQA18F
Type: Numeric
Variable label: 18.f. How often: Our mathematics teacher presents tasks that require us to apply what we have learned to new contexts.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.17
Max: 4.00
Std. Dev.: 0.81
Skew: -0.72

Value	Label	Freq.	Percent
1	Never or almost never	573	3.3%
2	Occasionally	2512	14.3%
3	Frequently	6836	38.9%
4	Always	6501	37.0%
9999	Missing	1132	6.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA18G
Type: Numeric
Variable label: 18.g. How often: Our mathematics teacher gives tasks that require us to think critically.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.68
Max: 4.00
Std. Dev.: 0.99
Skew: -0.25

Value	Label	Freq.	Percent
1	Never or almost never	2416	13.8%
2	Occasionally	4186	23.8%
3	Frequently	5949	33.9%
4	Always	3842	21.9%
9999	Missing	1161	6.6%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA18H
Type: Numeric
Variable label: 18.h. How often: Our mathematics teacher asks us to decide on our own procedures for solving complex tasks.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.70
Max: 4.00
Std. Dev.: 0.97
Skew: -0.21

Value	Label	Freq.	Percent
1	Never or almost never	2067	11.8%
2	Occasionally	4639	26.4%
3	Frequently	5775	32.9%
4	Always	3921	22.3%
9999	Missing	1152	6.6%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA18I
Type: Numeric
Variable label: 18.i. How often: Our mathematics teacher gives us opportunities to explain our ideas.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.24
Max: 4.00
Std. Dev.: 0.87
Skew: -0.92

Value	Label	Freq.	Percent
1	Never or almost never	773	4.4%
2	Occasionally	2367	13.5%
3	Frequently	5407	30.8%

4	Always	7865	44.8%
9999	Missing	1142	6.5%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA18J
Type: Numeric
Variable label: 18.j. How often: Our mathematics teacher encourages us to question and critique arguments made by other students.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.68
Max: 4.00
Std. Dev.: 1.07
Skew: -0.22

Value	Label	Freq.	Percent
1	Never or almost never	3017	17.2%
2	Occasionally	3917	22.3%
3	Frequently	4853	27.6%
4	Always	4622	26.3%
9999	Missing	1145	6.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA18K
Type: Numeric
Variable label: 18.k. How often: Our mathematics teacher requires us to engage in discussions among ourselves.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.48
Max: 4.00
Std. Dev.: 1.11
Skew: 0.02

Value	Label	Freq.	Percent
1	Never or almost never	4207	24.0%
2	Occasionally	4098	23.3%
3	Frequently	4190	23.9%
4	Always	3944	22.5%
9999	Missing	1115	6.4%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: SQA19A
Type: Numeric
Variable label: 19.a. Disagree or agree: Our mathematics teacher adapts the lessons to my class's needs and knowledge.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.13
Max: 4.00
Std. Dev.: 0.76
Skew: -0.74

Value	Label	Freq.	Percent
1	Strongly disagree	626	3.6%
2	Disagree	1962	11.2%
3	Agree	8514	48.5%
4	Strongly agree	5347	30.5%
9999	Missing	1105	6.3%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA19B
Type: Numeric
Variable label: 19.b. Disagree or agree: Our mathematics teacher changes the way of explanation (e.g. using different representations) when a student has difficulties understanding a topic or task.
Unique values: 5

Missing values: 0
 Min: 1.00
 Mean: 3.19
 Max: 4.00
 Std. Dev.: 0.80
 Skew: -0.85

Value	Label	Freq.	Percent
1	Strongly disagree	687	3.9%
2	Disagree	1977	11.3%
3	Agree	7262	41.4%
4	Strongly agree	6535	37.2%
9999	Missing	1093	6.2%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA19C
 Type: Numeric
 Variable label: 19.c. Disagree or agree: Our mathematics teacher changes the structure of the lesson on a topic that most students find difficult to understand.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.90
 Max: 4.00
 Std. Dev.: 0.85
 Skew: -0.43

Value	Label	Freq.	Percent
1	Strongly disagree	1037	5.9%
2	Disagree	3690	21.0%
3	Agree	7541	43.0%
4	Strongly agree	4140	23.6%
9999	Missing	1146	6.5%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQA19D				
Type:	Numeric				
Variable label:	19.d. Disagree or agree: Our mathematics teacher gives different work to students of different ability levels.				
Unique values:	5				
Missing values:	0				
Min:	1.00				
Mean:	2.03				
Max:	4.00				
Std. Dev.:	0.97				
Skew:	0.56				
Value	Label	Freq.	Percent		
1	Strongly disagree	5956	33.9%		
2	Disagree	5553	31.6%		
3	Agree	3346	19.1%		
4	Strongly agree	1578	9.0%		
9999	Missing	1121	6.4%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	2	2	3

Name:	SQA19E				
Type:	Numeric				
Variable label:	19.e. Disagree or agree: Our mathematics teacher asks questions to check if we have understood what he/she has taught.				
Unique values:	5				
Missing values:	0				
Min:	1.00				
Mean:	3.35				
Max:	4.00				
Std. Dev.:	0.72				
Skew:	-1.04				
Value	Label	Freq.	Percent		
1	Strongly disagree	405	2.3%		
2	Disagree	1209	6.9%		
3	Agree	7018	40.0%		
4	Strongly agree	7822	44.6%		
9999	Missing	1100	6.3%		
Percentiles:					
	10%	25%	50%	75%	90%
	3	3	3	3	4

Name: SQA20A
Type: Numeric
Variable label: 20.a. Disagree or agree: When the lesson begins, our mathematics teacher has to wait quite a long time for us to quieten down.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.21
Max: 4.00
Std. Dev.: 0.90
Skew: 0.31

Value	Label	Freq.	Percent
1	Strongly disagree	3817	21.7%
2	Disagree	6790	38.7%
3	Agree	4372	24.9%
4	Strongly agree	1477	8.4%
9999	Missing	1098	6.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	3

Name: SQA20B
Type: Numeric
Variable label: 20.b. Disagree or agree: We lose quite a lot of time because of students interrupting the lesson.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.23
Max: 4.00
Std. Dev.: 0.93
Skew: 0.27

Value	Label	Freq.	Percent
1	Strongly disagree	4031	23.0%
2	Disagree	6244	35.6%
3	Agree	4520	25.7%
4	Strongly agree	1656	9.4%
9999	Missing	1103	6.3%

Percentiles:					
	10%	25%	50%	75%	90%
	1	2	2	2	4

Name:	SQA20C		
Type:	Numeric		
Variable label:	20.c. Disagree or agree: There is much disruptive noise in this classroom.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.25		
Max:	4.00		
Std. Dev.:	0.91		
Skew:	0.27		
Value	Label	Freq.	Percent
1	Strongly disagree	3647	20.8%
2	Disagree	6603	37.6%
3	Agree	4531	25.8%
4	Strongly agree	1640	9.3%
9999	Missing	1133	6.5%

Percentiles:					
	10%	25%	50%	75%	90%
	1	2	2	2	3

Name:	SQA20D		
Type:	Numeric		
Variable label:	20.d. Disagree or agree: In our teacher's class, we are aware of what is allowed and what is not allowed.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	3.31		
Max:	4.00		
Std. Dev.:	0.73		
Skew:	-1.00		
Value	Label	Freq.	Percent
1	Strongly disagree	487	2.8%
2	Disagree	1206	6.9%
3	Agree	7514	42.8%
4	Strongly agree	7224	41.2%

9999 Missing 1123 6.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: **SQA20E**
Type: Numeric
Variable label: 20.e. Disagree or agree: In our teacher's class, we know why certain rules are important.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.26
Max: 4.00
Std. Dev.: 0.71
Skew: -0.81

Value	Label	Freq.	Percent
1	Strongly disagree	388	2.2%
2	Disagree	1404	8.0%
3	Agree	8215	46.8%
4	Strongly agree	6408	36.5%
9999	Missing	1139	6.5%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: **SQA20F**
Type: Numeric
Variable label: 20.f. Disagree or agree: Our teacher manages to stop disruptions quickly.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.18
Max: 4.00
Std. Dev.: 0.79
Skew: -0.82

Value	Label	Freq.	Percent
1	Strongly disagree	672	3.8%

2	Disagree	1962	11.2%
3	Agree	7544	43.0%
4	Strongly agree	6219	35.4%
9999	Missing	1157	6.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA20G

Type: Numeric

Variable label: 20.g. Disagree or agree: Our teacher reacts to disruptions in such a way that the students stop disturbing learning.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.11

Max: 4.00

Std. Dev.: 0.79

Skew: -0.73

Value	Label	Freq.	Percent
1	Strongly disagree	709	4.0%
2	Disagree	2159	12.3%
3	Agree	8174	46.6%
4	Strongly agree	5350	30.5%
9999	Missing	1162	6.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA20H

Type: Numeric

Variable label: 20.h. Disagree or agree: In our teacher's class, transitions from one phase of the lesson to the other (e.g., from class discussions to individual work) take a lot of time.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.24

Max: 4.00
Std. Dev.: 0.80
Skew: 0.29

Value	Label	Freq.	Percent
1	Strongly disagree	2690	15.3%
2	Disagree	8084	46.1%
3	Agree	4555	25.9%
4	Strongly agree	1056	6.0%
9999	Missing	1169	6.7%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	3

Name: SQA20I

Type: Numeric

Variable label: 20.i. Disagree or agree: Our teacher is immediately aware of students doing something else.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.05

Max: 4.00

Std. Dev.: 0.80

Skew: -0.60

Value	Label	Freq.	Percent
1	Strongly disagree	697	4.0%
2	Disagree	2727	15.5%
3	Agree	8003	45.6%
4	Strongly agree	5007	28.5%
9999	Missing	1120	6.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA20J

Type: Numeric

Variable label: 20.j. Disagree or agree: Our teacher is aware of what is happening in the classroom, even if he or she is busy with an individual student.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.09
 Max: 4.00
 Std. Dev.: 0.79
 Skew: -0.66

Value	Label	Freq.	Percent
1	Strongly disagree	668	3.8%
2	Disagree	2431	13.8%
3	Agree	8113	46.2%
4	Strongly agree	5207	29.7%
9999	Missing	1135	6.5%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21A
Type: Numeric
Variable label: 21.a. Disagree or agree: Our mathematics teacher gives extra help when we need it.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.25
 Max: 4.00
 Std. Dev.: 0.76
 Skew: -0.89

Value	Label	Freq.	Percent
1	Strongly disagree	523	3.0%
2	Disagree	1595	9.1%
3	Agree	7603	43.3%
4	Strongly agree	6714	38.2%
9999	Missing	1119	6.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21B
Type: Numeric
Variable label: 21.b. Disagree or agree: Our mathematics teacher continues teaching until we understand.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.24
Max: 4.00
Std. Dev.: 0.76
Skew: -0.81

Value	Label	Freq.	Percent
1	Strongly disagree	443	2.5%
2	Disagree	1861	10.6%
3	Agree	7406	42.2%
4	Strongly agree	6718	38.3%
9999	Missing	1126	6.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21C
Type: Numeric
Variable label: 21.c. Disagree or agree: Our mathematics teacher helps us with our learning.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.37
Max: 4.00
Std. Dev.: 0.66
Skew: -0.90

Value	Label	Freq.	Percent
1	Strongly disagree	266	1.5%
2	Disagree	908	5.2%
3	Agree	7785	44.3%
4	Strongly agree	7444	42.4%
9999	Missing	1151	6.6%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	4

Name: SQA21D
Type: Numeric
Variable label: 21.d. Disagree or agree: Our mathematics teacher makes me feel confident in my ability to do well in the course.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.15
Max: 4.00
Std. Dev.: 0.81
Skew: -0.73

Value	Label	Freq.	Percent
1	Strongly disagree	656	3.7%
2	Disagree	2371	13.5%
3	Agree	7316	41.7%
4	Strongly agree	6076	34.6%
9999	Missing	1135	6.5%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21E
Type: Numeric
Variable label: 21.e. Disagree or agree: Our mathematics teacher listens to my view on how to do things.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.12
Max: 4.00
Std. Dev.: 0.78
Skew: -0.68

Value	Label	Freq.	Percent
1	Strongly disagree	609	3.5%
2	Disagree	2314	13.2%
3	Agree	7971	45.4%
4	Strongly agree	5495	31.3%
9999	Missing	1165	6.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21F
Type: Numeric
Variable label: 21.f. Disagree or agree: I feel that our mathematics teacher understands me.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.03
Max: 4.00
Std. Dev.: 0.85
Skew: -0.63

Value	Label	Freq.	Percent
1	Strongly disagree	962	5.5%
2	Disagree	2819	16.1%
3	Agree	7397	42.1%
4	Strongly agree	5212	29.7%
9999	Missing	1164	6.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21G
Type: Numeric
Variable label: 21.g. Disagree or agree: Our mathematics teacher makes me feel confident in my ability to learn the material.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.11
Max: 4.00
Std. Dev.: 0.80
Skew: -0.67

Value	Label	Freq.	Percent
1	Strongly disagree	668	3.8%
2	Disagree	2447	13.9%
3	Agree	7761	44.2%
4	Strongly agree	5514	31.4%
9999	Missing	1164	6.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21H

Type: Numeric

Variable label: 21.h. Disagree or agree: Our mathematics teacher provides me with different alternatives (e.g. learning materials or tasks).

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.84

Max: 4.00

Std. Dev.: 0.91

Skew: -0.41

Value	Label	Freq.	Percent
1	Strongly disagree	1501	8.6%
2	Disagree	3807	21.7%
3	Agree	6919	39.4%
4	Strongly agree	4161	23.7%
9999	Missing	1166	6.6%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA21I

Type: Numeric

Variable label: 21.i. Disagree or agree: Our mathematics teacher encourages me to find the best way to proceed by myself.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.99

Max: 4.00

Std. Dev.: 0.84

Skew: -0.54

Value	Label	Freq.	Percent
1	Strongly disagree	903	5.1%

2	Disagree	3125	17.8%
3	Agree	7599	43.3%
4	Strongly agree	4749	27.1%
9999	Missing	1178	6.7%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21J
Type: Numeric
Variable label: 21.j. Disagree or agree: Our mathematics teacher lets me work on my own.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.12
Max: 4.00
Std. Dev.: 0.76
Skew: -0.69

Value	Label	Freq.	Percent
1	Strongly disagree	592	3.4%
2	Disagree	2153	12.3%
3	Agree	8379	47.7%
4	Strongly agree	5252	29.9%
9999	Missing	1178	6.7%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA21K
Type: Numeric
Variable label: 21.k. Disagree or agree: Our mathematics teacher appreciates it when different solutions come up for discussion.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.16
Max: 4.00
Std. Dev.: 0.77

Skew:	-0.76		
Value	Label	Freq.	Percent
1	Strongly disagree	599	3.4%
2	Disagree	1970	11.2%
3	Agree	8076	46.0%
4	Strongly agree	5721	32.6%
9999	Missing	1188	6.8%

Percentiles:				
10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA22A
Type: Numeric
Variable label: 22.a. Disagree or agree: I get along well with my mathematics teacher.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.28
Max: 4.00
Std. Dev.: 0.72
Skew: -0.93

Value	Label	Freq.	Percent
1	Strongly disagree	467	2.7%
2	Disagree	1255	7.1%
3	Agree	7932	45.2%
4	Strongly agree	6781	38.6%
9999	Missing	1119	6.4%

Percentiles:				
10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA22B
Type: Numeric
Variable label: 22.b. Disagree or agree: My mathematics teacher is interested in my well-being.
Unique values: 5
Missing values: 0
Min: 1.00

Mean: 3.00
 Max: 4.00
 Std. Dev.: 0.80
 Skew: -0.51

Value	Label	Freq.	Percent
1	Strongly disagree	712	4.1%
2	Disagree	3118	17.8%
3	Agree	7946	45.3%
4	Strongly agree	4580	26.1%
9999	Missing	1198	6.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA22C

Type: Numeric

Variable label: 22.c. Disagree or agree: My mathematics teacher really listens to what I have to say.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.18

Max: 4.00

Std. Dev.: 0.73

Skew: -0.72

Value	Label	Freq.	Percent
1	Strongly disagree	458	2.6%
2	Disagree	1810	10.3%
3	Agree	8446	48.1%
4	Strongly agree	5664	32.3%
9999	Missing	1176	6.7%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA22D

Type: Numeric

Variable label: 22.d. Disagree or agree: My mathematics teacher treats me fairly.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.30
 Max: 4.00
 Std. Dev.: 0.70
 Skew: -0.95

Value	Label	Freq.	Percent
1	Strongly disagree	429	2.4%
2	Disagree	1019	5.8%
3	Agree	8129	46.3%
4	Strongly agree	6828	38.9%
9999	Missing	1149	6.5%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	4

Name: SQA22E
Type: Numeric
Variable label: 22.e. Disagree or agree: My mathematics teacher makes me feel she/he really cares about me.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.97
 Max: 4.00
 Std. Dev.: 0.82
 Skew: -0.47

Value	Label	Freq.	Percent
1	Strongly disagree	784	4.5%
2	Disagree	3351	19.1%
3	Agree	7811	44.5%
4	Strongly agree	4389	25.0%
9999	Missing	1219	6.9%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQA22F
Type: Numeric
Variable label: 22.f. Disagree or agree: I feel like an outsider (or left out of things) in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.65
Max: 4.00
Std. Dev.: 0.84
Skew: 1.17

Value	Label	Freq.	Percent
1	Strongly disagree	8906	50.7%
2	Disagree	4991	28.4%
3	Agree	1784	10.2%
4	Strongly agree	713	4.1%
9999	Missing	1160	6.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQA22G
Type: Numeric
Variable label: 22.g. Disagree or agree: I feel like I belong in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.15
Max: 4.00
Std. Dev.: 0.76
Skew: -0.79

Value	Label	Freq.	Percent
1	Strongly disagree	653	3.7%
2	Disagree	1785	10.2%
3	Agree	8449	48.1%
4	Strongly agree	5476	31.2%
9999	Missing	1191	6.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name:	SQA22H			
Type:	Numeric			
Variable label:	22.h. Disagree or agree: I feel awkward and out of place in my mathematics class.			
Unique values:	5			
Missing values:	0			
Min:	1.00			
Mean:	1.69			
Max:	4.00			
Std. Dev.:	0.85			
Skew:	1.07			

Value	Label	Freq.	Percent	
1	Strongly disagree	8473	48.3%	
2	Disagree	5216	29.7%	
3	Agree	1975	11.3%	
4	Strongly agree	726	4.1%	
9999	Missing	1164	6.6%	

Percentiles:				
10%	25%	50%	75%	90%
1	1	1	1	3

Name:	SQA22I			
Type:	Numeric			
Variable label:	22.i. Disagree or agree: I feel lonely in my mathematics class.			
Unique values:	5			
Missing values:	0			
Min:	1.00			
Mean:	1.58			
Max:	4.00			
Std. Dev.:	0.82			
Skew:	1.37			

Value	Label	Freq.	Percent	
1	Strongly disagree	9658	55.0%	
2	Disagree	4630	26.4%	
3	Agree	1418	8.1%	
4	Strongly agree	700	4.0%	
9999	Missing	1148	6.5%	

Percentiles:				
10%	25%	50%	75%	90%

1 1 1 1 3

Name: SQA23_C
Type: String
Variable label: SQA23, Original character value
Unique values: 480
Missing values: 295

Value	Label	Freq.	Percent
		295	1.7%
-4		1	0.0%
0		11	0.1%
0.2		1	0.0%
0.25		1	0.0%
All other values		17025	97.0%

Name: SQA24
Type: Numeric
Variable label: 24. How hard was this test compared to most other tests you have taken this year in school?
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.56
Max: 4.00
Std. Dev.: 0.81
Skew: 1.40

Value	Label	Freq.	Percent
1	Easier than other tests.	9925	56.5%
2	About as hard as other tests.	4277	24.4%
3	Harder than other tests.	1481	8.4%
4	Much harder than other tests.	611	3.5%
9999	Missing	1260	7.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQA25
Type: Numeric
Variable label: 25. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.97
Max: 4.00
Std. Dev.: 0.84
Skew: 0.73

Value	Label	Freq.	Percent
1	Not as hard as on other tests.	4889	27.9%
2	About as hard as on other tests.	8094	46.1%
3	Harder than on other tests.	2254	12.8%
4	Much harder than on other tests.	1070	6.1%
9999	Missing	1247	7.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SQA26
Type: Numeric
Variable label: 26. How important was it to you to do well on this test?
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.77
Max: 4.00
Std. Dev.: 0.99
Skew: -0.29

Value	Label	Freq.	Percent
1	Not very important	2052	11.7%
2	Somewhat important	4253	24.2%
3	Important	5455	31.1%
4	Very important	4563	26.0%
9999	Missing	1231	7.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA27
Type: Numeric
Variable label: 27. What is the highest level of schooling completed by your mother?
Unique values: 11
Missing values: 0
Min: 1.00
Mean: 1.79
Max: 9.00
Std. Dev.: 1.05
Skew: 1.28

Value	Label	Freq.	Percent
1		8611	49.1%
2		3421	19.5%
3		2555	14.6%
4		812	4.6%
5		376	2.1%
All other values		1777	10.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQA28A
Type: Numeric
Variable label: 28.a. Mother: A doctorate or higher degree (e.g. MPhil, PhD)
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.91
Max: 2.00
Std. Dev.: 0.29
Skew: -2.83

Value	Label	Freq.	Percent
1	Yes	1193	6.8%
2	No	11813	67.3%
9997	Illegible response	4	0.0%
9998	Multiple responses	4	0.0%

9999 Missing 4540 25.9%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	2

Name: **SQA28B**
Type: Numeric
Variable label: 28.b. Mother: A university degree (e.g. BA, BSc, BEd) or Master s degree (e.g. MA, MSc, MBA)
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.69
Max: 2.00
Std. Dev.: 0.46
Skew: -0.84

Value	Label	Freq.	Percent
1	Yes	4220	24.0%
2	No	9540	54.3%
9997	Illegible response	2	0.0%
9998	Multiple responses	10	0.1%
9999	Missing	3782	21.5%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: **SQA28C**
Type: Numeric
Variable label: 28.c. Mother: A Higher Education qualification below degree level (e.g. NVQ level 4 or 5, Diploma of Higher Education, nursing qualifications or Higher levels in HNC, HND or BTEC)
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.68
Max: 2.00

Std. Dev.: 0.47

Skew: -0.75

Value	Label	Freq.	Percent
1	Yes	4350	24.8%
2	No	9042	51.5%
9997	Illegible response	10	0.1%
9998	Multiple responses	18	0.1%
9999	Missing	4134	23.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA28D

Type: Numeric

Variable label: 28.d. Mother: A Higher Education access course. This qualifies a person to enter higher education without, for example, A levels

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 1.71

Max: 2.00

Std. Dev.: 0.45

Skew: -0.93

Value	Label	Freq.	Percent
1	Yes	2594	14.8%
2	No	6370	36.3%
9997	Illegible response	3	0.0%
9998	Multiple responses	17	0.1%
9999	Missing	8570	48.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA29

Type: Numeric

Variable label: 29. What is the <highest level of schooling> completed by your father?

Unique values: 9

Missing values: 0

Min: 1.00
 Mean: 1.82
 Max: 8.00
 Std. Dev.: 1.06
 Skew: 1.23

Value	Label	Freq.	Percent
1		8242	47.0%
2		3477	19.8%
3		2493	14.2%
4		886	5.0%
5		375	2.1%
All other values		2073	11.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQA30A
Type: Numeric
Variable label: 30.a. Father: A doctorate or higher degree (e.g. MPhil, PhD)
Unique values: 5
Missing values: 0
 Min: 1.00
 Mean: 1.88
 Max: 2.00
 Std. Dev.: 0.32
 Skew: -2.37

Value	Label	Freq.	Percent
1	Yes	1493	8.5%
2	No	11194	63.8%
9997	Illegible response	2	0.0%
9998	Multiple responses	3	0.0%
9999	Missing	4862	27.7%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	2

Name: SQA30B
Type: Numeric

Variable label: 30.b. Father: A university degree (e.g. BA, BSc, BEd) or Master s degree (e.g. MA, MSc, MBA)

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 1.68

Max: 2.00

Std. Dev.: 0.47

Skew: -0.75

Value	Label	Freq.	Percent
1	Yes	4347	24.8%
2	No	9043	51.5%
9997	Illegible response	2	0.0%
9998	Multiple responses	27	0.2%
9999	Missing	4135	23.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA30C

Type: Numeric

Variable label: 30.c. Father: A Higher Education qualification below degree level (e.g. NVQ level 4 or 5, Diploma of Higher Education, nursing qualifications or Higher levels in HNC, HND or BTEC)

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 1.67

Max: 2.00

Std. Dev.: 0.47

Skew: -0.72

Value	Label	Freq.	Percent
1	Yes	4329	24.7%
2	No	8770	50.0%
9997	Illegible response	9	0.1%
9998	Multiple responses	15	0.1%
9999	Missing	4431	25.2%

Percentiles:

10%	25%	50%	75%	90%

1

1

2

2

2

Name: SQA30D
Type: Numeric
Variable label: 30.d. Father: A Higher Education access course. This qualifies a person to enter higher education without, for example, A levels
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.69
Max: 2.00
Std. Dev.: 0.46
Skew: -0.84

Value	Label	Freq.	Percent
1	Yes	2707	15.4%
2	No	6109	34.8%
9997	Illegible response	1	0.0%
9998	Multiple responses	12	0.1%
9999	Missing	8725	49.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA31A
Type: Numeric
Variable label: 31.a. In your home: A desk to study at
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.12
Max: 2.00
Std. Dev.: 0.33
Skew: 2.31

Value	Label	Freq.	Percent
1	Yes	14346	81.7%
2	No	1992	11.3%
9998	Multiple responses	2	0.0%
9999	Missing	1214	6.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31B
Type: Numeric
Variable label: 31.b. In your home: A room of your own
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.20
Max: 2.00
Std. Dev.: 0.40
Skew: 1.52

Value	Label	Freq.	Percent
1	Yes	13139	74.8%
2	No	3224	18.4%
9997	Illegible response	1	0.0%
9998	Multiple responses	4	0.0%
9999	Missing	1186	6.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31C
Type: Numeric
Variable label: 31.c. In your home: A quiet place to study
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.13
Max: 2.00
Std. Dev.: 0.34
Skew: 2.15

Value	Label	Freq.	Percent
1	Yes	14165	80.7%
2	No	2186	12.5%
9998	Multiple responses	5	0.0%
9999	Missing	1198	6.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31D
Type: Numeric
Variable label: 31.d. In your home: A computer you can use for school work
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.24
Max: 2.00
Std. Dev.: 0.43
Skew: 1.23

Value	Label	Freq.	Percent
1	Yes	12448	70.9%
2	No	3903	22.2%
9998	Multiple responses	5	0.0%
9999	Missing	1198	6.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31E
Type: Numeric
Variable label: 31.e. In your home: Educational software
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.50
Max: 2.00
Std. Dev.: 0.50
Skew: -0.02

Value	Label	Freq.	Percent
1	Yes	8069	46.0%
2	No	8205	46.7%
9998	Multiple responses	10	0.1%
9999	Missing	1270	7.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA31F
Type: Numeric
Variable label: 31.f. In your home: A link to the Internet
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.11
Max: 2.00
Std. Dev.: 0.31
Skew: 2.49

Value	Label	Freq.	Percent
1	Yes	14555	82.9%
2	No	1799	10.2%
9998	Multiple responses	5	0.0%
9999	Missing	1195	6.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31G
Type: Numeric
Variable label: 31.g. In your home: Classic literature (e.g. Shakespeare)
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.41
Max: 2.00
Std. Dev.: 0.49
Skew: 0.36

Value	Label	Freq.	Percent
1	Yes	9605	54.7%
2	No	6714	38.2%
9998	Multiple responses	9	0.1%
9999	Missing	1226	7.0%

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	2

Name:	SQA31H			
Type:	Numeric			
Variable label:	31.h. In your home: Books of poetry			
Unique values:	5			
Missing values:	0			
Min:	1.00			
Mean:	1.52			
Max:	2.00			
Std. Dev.:	0.50			
Skew:	-0.09			
Value	Label	Freq.	Percent	
1	Yes	7802	44.4%	
2	No	8520	48.5%	
9997	Illegible response	1	0.0%	
9998	Multiple responses	4	0.0%	
9999	Missing	1227	7.0%	

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	2	2	2

Name:	SQA31I			
Type:	Numeric			
Variable label:	31.i. In your home: Works of art (e.g. paintings)			
Unique values:	5			
Missing values:	0			
Min:	1.00			
Mean:	1.46			
Max:	2.00			
Std. Dev.:	0.50			
Skew:	0.16			
Value	Label	Freq.	Percent	
1	Yes	8814	50.2%	
2	No	7515	42.8%	
9997	Illegible response	1	0.0%	
9998	Multiple responses	6	0.0%	
9999	Missing	1218	6.9%	

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31J
Type: Numeric
Variable label: 31.j. In your home: Books to help with your school work
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.18
Max: 2.00
Std. Dev.: 0.39
Skew: 1.65

Value	Label	Freq.	Percent
1	Yes	13361	76.1%
2	No	2978	17.0%
9998	Multiple responses	8	0.0%
9999	Missing	1207	6.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31K
Type: Numeric
Variable label: 31.k. In your home: Technical reference books
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.44
Max: 2.00
Std. Dev.: 0.50
Skew: 0.23

Value	Label	Freq.	Percent
1	Yes	9056	51.6%
2	No	7213	41.1%
9997	Illegible response	1	0.0%
9998	Multiple responses	5	0.0%

9999 Missing 1279 7.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: **SQA31L**
Type: Numeric
Variable label: 31.l. In your home: A dictionary
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.04
Max: 2.00
Std. Dev.: 0.20
Skew: 4.58

Value	Label	Freq.	Percent
1	Yes	15674	89.3%
2	No	684	3.9%
9998	Multiple responses	6	0.0%
9999	Missing	1190	6.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: **SQA31M**
Type: Numeric
Variable label: 31.m. In your home: Books on art, music, or design
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.45
Max: 2.00
Std. Dev.: 0.50
Skew: 0.22

Value	Label	Freq.	Percent
1	Yes	9033	51.5%
2	No	7280	41.5%
9998	Multiple responses	5	0.0%

9999 Missing 1236 7.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: **SQA31N**
Type: Numeric
Variable label: 31.n. In your home: TV streaming subscription (e.g. Netflix, Amazon Prime)
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.44
Max: 2.00
Std. Dev.: 0.50
Skew: 0.26

Value	Label	Freq.	Percent
1	Yes	9182	52.3%
2	No	7102	40.5%
9997	Illegible response	1	0.0%
9998	Multiple responses	8	0.0%
9999	Missing	1261	7.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: **SQA31O**
Type: Numeric
Variable label: 31.o. In your home: Your own internet-connected device (e.g. smartphone, tablet computer)
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.39
Max: 2.00
Std. Dev.: 0.49
Skew: 0.44

Value	Label	Freq.	Percent
1	Yes	9926	56.5%

2	No	6393	36.4%
9997	Illegible response	3	0.0%
9998	Multiple responses	6	0.0%
9999	Missing	1226	7.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA31P
Type: Numeric
Variable label: 31.p. In your home: Someone to help with work at home? (e.g. cleaner, nanny, au-pair, gardener)
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.33
Max: 2.00
Std. Dev.: 0.47
Skew: 0.74

Value	Label	Freq.	Percent
1	Yes	10978	62.5%
2	No	5322	30.3%
9997	Illegible response	1	0.0%
9998	Multiple responses	8	0.0%
9999	Missing	1245	7.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA32A
Type: Numeric
Variable label: 32.a. How many in home: Televisions
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 3.25
Max: 4.00
Std. Dev.: 0.81

Skew:	-0.63		
Value	Label	Freq.	Percent
1	None	212	1.2%
2	One	3219	18.3%
3	Two	5222	29.7%
4	Three or more	7685	43.8%
9997	Illegible response	1	0.0%
All other values		1199	6.8%

Percentiles:				
10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQA32B
Type: Numeric
Variable label: 32.b. How many in home: Cars
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.37
Max: 4.00
Std. Dev.: 0.95
Skew: 0.13

Value	Label	Freq.	Percent
1	None	3353	19.1%
2	One	5779	32.9%
3	Two	4983	28.4%
4	Three or more	2156	12.3%
9998	Multiple responses	19	0.1%
All other values		0	0.0%

Percentiles:				
10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQA32C
Type: Numeric
Variable label: 32.c. How many in home: Rooms with a bath or shower
Unique values: 7
Missing values: 0

Min: 1.00
 Mean: 2.46
 Max: 4.00
 Std. Dev.: 0.79
 Skew: 0.45

Value	Label	Freq.	Percent
1	None	1115	6.4%
2	One	8549	48.7%
3	Two	4618	26.3%
4	Three or more	1986	11.3%
9997	Illegible response	1	0.0%
All other values		1251	7.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	4

Name: SQA32D
Type: Numeric
Variable label: 32.d. How many in home: Mobile phones with Internet access (e.g. smartphones)
Unique values: 6
Missing values: 0
 Min: 1.00
 Mean: 3.72
 Max: 4.00
 Std. Dev.: 0.68
 Skew: -2.55

Value	Label	Freq.	Percent
1	None	417	2.4%
2	One	907	5.2%
3	Two	1512	8.6%
4	Three or more	13420	76.4%
9998	Multiple responses	31	0.2%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
3	4	4	4	4

Name: SQA32E
Type: Numeric
Variable label: 32.e. How many in home: Computers (desktop computer, portable laptop, or notebook)
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.71
Max: 4.00
Std. Dev.: 1.02
Skew: -0.15

Value	Label	Freq.	Percent
1	None	2157	12.3%
2	One	4981	28.4%
3	Two	4503	25.7%
4	Three or more	4604	26.2%
9997	Illegible response	1	0.0%
All other values		1282	7.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQA32F
Type: Numeric
Variable label: 32.f. How many in home: Tablet computers (e.g. iPad, Samsung Galaxy Tablet)
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.25
Max: 4.00
Std. Dev.: 1.07
Skew: 0.37

Value	Label	Freq.	Percent
1	None	4798	27.3%
2	One	5454	31.1%
3	Two	3111	17.7%
4	Three or more	2899	16.5%
9997	Illegible response	1	0.0%
All other values		1273	7.3%

Percentiles:

10%	25%	50%	75%	90%

1

1

2

2

4

Name:	SQA32G		
Type:	Numeric		
Variable label:	32.g. How many in home: E-book readers (e.g. Kindle, Kobo, Nook)		
Unique values:	6		
Missing values:	0		
Min:	1.00		
Mean:	1.50		
Max:	4.00		
Std. Dev.:	0.82		
Skew:	1.66		
Value	Label	Freq.	Percent
1	None	10778	61.4%
2	One	3503	20.0%
3	Two	1149	6.5%
4	Three or more	766	4.4%
9998	Multiple responses	12	0.1%
All other values		0	0.0%

Percentiles:

10%

25%

50%

75%

90%

1

1

1

1

3

Name:	SQA32H		
Type:	Numeric		
Variable label:	32.h. How many in home: Musical instruments (e.g. guitar, piano)		
Unique values:	6		
Missing values:	0		
Min:	1.00		
Mean:	2.24		
Max:	4.00		
Std. Dev.:	1.12		
Skew:	0.37		
Value	Label	Freq.	Percent
1	None	5512	31.4%
2	One	4654	26.5%
3	Two	2850	16.2%
4	Three or more	3286	18.7%
9998	Multiple responses	11	0.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: SQA33
Type: Numeric
Variable label: 33. How many books are there in your home?
Unique values: 9
Missing values: 0
Min: 1.00
Mean: 3.03
Max: 6.00
Std. Dev.: 1.50
Skew: 0.30

Value	Label	Freq.	Percent
1	0-10 books	3296	18.8%
2	11-25 books	2846	16.2%
3	26-100 books	4462	25.4%
4	101-200 books	2557	14.6%
5	201-500 books	2005	11.4%
All other values		1285	7.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	5

Name: SQA34A
Type: Numeric
Variable label: 34. Did you concentrate while answering the questionnaire?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 1.48
Max: 4.00
Std. Dev.: 0.74
Skew: 1.57

Value	Label	Freq.	Percent
1	Yes	10384	59.2%
2	Mostly	4149	23.6%

3	Partly	1139	6.5%
4	No	419	2.4%
9997	Illegible response	1	0.0%
All other values		1456	8.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA28E

Type: Numeric

Variable label: 28.e. Degree at a Fachoberschule / Vocational school / Technical secondary school (or a comparable degree abroad)

Unique values: 3

Missing values: 0

Min: 1.00

Mean: 1.58

Max: 2.00

Std. Dev.: 0.49

Skew: -0.34

Value	Label	Freq.	Percent
1	Yes	348	2.0%
2	No	487	2.8%
9999	Missing	16719	95.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA28F

Type: Numeric

Variable label: 28.f. Completed apprenticeship, degree from a commercial school (or comparable degree abroad)

Unique values: 4

Missing values: 0

Min: 1.00

Mean: 1.62

Max: 2.00

Std. Dev.: 0.49

Skew: -0.49

Value	Label	Freq.	Percent
1	Yes	321	1.8%
2	No	522	3.0%
9998	Multiple responses	1	0.0%
9999	Missing	16710	95.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA28G

Type: Numeric

Variable label: 28.g. Other professional qualification (eg abroad)

Unique values: 4

Missing values: 0

Min: 1.00

Mean: 1.80

Max: 2.00

Std. Dev.: 0.40

Skew: -1.49

Value	Label	Freq.	Percent
1	Yes	163	0.9%
2	No	645	3.7%
9998	Multiple responses	3	0.0%
9999	Missing	16743	95.4%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	2

Name: SQA30E

Type: Numeric

Variable label: 30.e. Degree at a Fachoberschule / Vocational school / Technical secondary school (or a comparable degree abroad)

Unique values: 4

Missing values: 0

Min: 1.00

Mean: 1.61

Max: 2.00

Std. Dev.: 0.49

Skew: -0.45

Value	Label	Freq.	Percent
1	Yes	305	1.7%
2	No	478	2.7%
9998	Multiple responses	4	0.0%
9999	Missing	16767	95.5%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA30F
Type: Numeric
Variable label: 30.f. Completed apprenticeship, degree from a commercial school (or comparable degree abroad)
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 1.62
Max: 2.00
Std. Dev.: 0.49
Skew: -0.49

Value	Label	Freq.	Percent
1	Yes	307	1.7%
2	No	497	2.8%
9998	Multiple responses	3	0.0%
9999	Missing	16747	95.4%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SQA30G
Type: Numeric
Variable label: 30.g. Other professional qualification (eg abroad)
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.82
Max: 2.00

Std. Dev.:	0.38		
Skew:	-1.66		
Value	Label	Freq.	Percent
1	Yes	143	0.8%
2	No	651	3.7%
9999	Missing	16760	95.5%

Percentiles:				
10%	25%	50%	75%	90%
1	2	2	2	2

Name:	SQA31Q		
Type:	Numeric		
Variable label:	31.q. One or more musical instruments		
Unique values:	3		
Missing values:	0		
Min:	1.00		
Mean:	1.29		
Max:	2.00		
Std. Dev.:	0.45		
Skew:	0.91		
Value	Label	Freq.	Percent
1	Yes	754	4.3%
2	No	311	1.8%
9999	Missing	16489	93.9%

Percentiles:				
10%	25%	50%	75%	90%
1	1	1	1	2

Name:	SQA31R		
Type:	Numeric		
Variable label:	31.r. A smartphone (eg iPhone, Samsung Galaxy Smartphone)		
Unique values:	3		
Missing values:	0		
Min:	1.00		
Mean:	1.01		
Max:	2.00		
Std. Dev.:	0.09		
Skew:	11.41		

Value	Label	Freq.	Percent
1	Yes	1058	6.0%
2	No	8	0.0%
9999	Missing	16488	93.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: SQA31S
Type: Numeric
Variable label: 31.s. A digital video camera
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.21
Max: 2.00
Std. Dev.: 0.41
Skew: 1.42

Value	Label	Freq.	Percent
1	Yes	840	4.8%
2	No	224	1.3%
9999	Missing	16490	93.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA_STARTTIME

Type: String
Variable label: Start Time
Unique values: 457
Missing values: 4,934

Value	Label	Freq.	Percent
		4934	28.1%
0:35		1	0.0%
10:00		271	1.5%
10:01		21	0.1%
10:02		21	0.1%
All other values		12288	70.0%

Name:	SQA_ENDTIME		
Type:	String		
Variable label:	End Time		
Unique values:	767		
Missing values:	3,874		
Value	Label	Freq.	Percent
		3874	22.1%
10:00		45	0.3%
10:01		22	0.1%
10:02		16	0.1%
10:03		21	0.1%
All other values		13567	77.3%

Name:	SQA02		
Type:	String		
Variable label:	2. On what date were you born?		
Unique values:	1,971		
Missing values:	794		
Value	Label	Freq.	Percent
		794	4.5%
01/01/1999		1	0.0%
01/01/2001		2	0.0%
01/01/2002		13	0.1%
01/01/2003		82	0.5%
All other values		16445	93.7%

Name:	SQA23		
Type:	Numeric		
Variable label:	23. In your last school report, what mark did you receive in mathematics?		
Unique values:	218		
Missing values:	0		
Min:	0.00		
Mean:	373.18		
Max:	9991.00		
Std. Dev.:	1837.78		
Skew:	5.04		
Value	Label	Freq.	Percent
0		11	0.1%

.2000000029802322388	1	0.0%
.25	1	0.0%
1	220	1.3%
1.20000004768371582	1	0.0%
All other values	17319	98.7%

Percentiles:					
10%	25%	50%	75%	90%	
3					
	4	6.199999809265136719	6.199999809265136719		92

Name: ABSENT_SQA
Type: Numeric
Variable label: Student marked absent in SQA
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.01
Max: 1.00
Std. Dev.: 0.08
Skew: 12.13

Value	Label	Freq.	Percent
0		17437	99.3%
1		117	0.7%

Percentiles:					
10%	25%	50%	75%	90%	
0	0	0	0	0	

Name: ABSENT_SQB
Type: Numeric
Variable label: Student marked basent in SQB
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.01
Max: 1.00
Std. Dev.: 0.09
Skew: 10.98

Value	Label	Freq.	Percent
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0	17412	99.2%
1	142	0.8%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: ABSENT_STA
Type: Numeric
Variable label: Student marked basent in STA
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.01
Max: 1.00
Std. Dev.: 0.08
Skew: 12.13

Value	Label	Freq.	Percent
0		17437	99.3%
1		117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: ABSENT_STB
Type: Numeric
Variable label: Student marked basent in STB
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.01
Max: 1.00
Std. Dev.: 0.09
Skew: 10.43

Value	Label	Freq.	Percent
0		17397	99.1%
1		157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: SA_INTGRADE
Type: Numeric
Variable label: Grade student attending
Unique values: 9
Missing values: 989
Min: 7.00
Mean: 9.00
Max: 14.00
Std. Dev.: 0.93
Skew: 0.85

Value	Label	Freq.	Percent
7		253	1.4%
8		4365	24.9%
9		9180	52.3%
10		767	4.4%
11		1961	11.2%
All other values		991	5.6%

Percentiles:

10%	25%	50%	75%	90%
8	8	9	9	11

Name: SA_AGE
Type: Numeric
Variable label: Student age at SQA
Unique values: 1,928
Missing values: 1,216
Min: 10.08
Mean: 14.88
Max: 21.44
Std. Dev.: 1.11
Skew: 0.76

Value	Label	Freq.	Percent
10.08493		1	0.0%
10.65205		1	0.0%
11.19726		1	0.0%
12.13151		1	0.0%

12.16438	1	0.0%
All other values	17548	100.0%

Percentiles:				
10%	25%	50%	75%	90%
13.52055	14.13151	14.7589	14.7589	16.50685

Name: SA_FEMALE
Type: Numeric
Variable label: Student is female
Unique values: 3
Missing values: 991
Min: 0.00
Mean: 0.51
Max: 1.00
Std. Dev.: 0.50
Skew: -0.02

Value	Label	Freq.	Percent
0	No	8190	46.7%
1	Yes	8373	47.7%
.		991	5.6%

Percentiles:				
10%	25%	50%	75%	90%
0	0	1	1	1

Name: SA_GENDER
Type: Numeric
Variable label: Student gender
Unique values: 3
Missing values: 991
Min: 1.00
Mean: 1.49
Max: 2.00
Std. Dev.: 0.50
Skew: 0.02

Value	Label	Freq.	Percent
1	Female	8372	47.7%
2	Male	8191	46.7%
.		991	5.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SA_IMMIG_1
Type: Numeric
Variable label: Student is first generation immigrant
Unique values: 3
Missing values: 1,331
Min: 0.00
Mean: 0.02
Max: 1.00
Std. Dev.: 0.15
Skew: 6.52

Value	Label	Freq.	Percent
0	No	15866	90.4%
1	Yes	357	2.0%
.		1331	7.6%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: SA_IMMIG_2
Type: Numeric
Variable label: Student is second generation immigrant
Unique values: 3
Missing values: 1,331
Min: 0.00
Mean: 0.03
Max: 1.00
Std. Dev.: 0.17
Skew: 5.60

Value	Label	Freq.	Percent
0	No	15750	89.7%
1	Yes	473	2.7%
.		1331	7.6%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: SA_IMMIG_I
Type: Numeric
Variable label: Student is a first or second generation immigrant
Unique values: 3
Missing values: 1,331
Min: 0.00
Mean: 0.05
Max: 1.00
Std. Dev.: 0.22
Skew: 4.07

Value	Label	Freq.	Percent
0	No	15393	87.7%
1	Yes	830	4.7%
.		1331	7.6%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: SA_IMMIG_N
Type: Numeric
Variable label: Student is native to participating country/economy
Unique values: 3
Missing values: 1,126
Min: 0.00
Mean: 0.91
Max: 1.00
Std. Dev.: 0.29
Skew: -2.77

Value	Label	Freq.	Percent
0	No	1557	8.9%
1	Yes	14871	84.7%
.		1126	6.4%

Percentiles:

10%	25%	50%	75%	90%
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1 1 1 1 1

Name: SA_LANGHOME
Type: Numeric
Variable label: Language spoken at home is same as language of assessment
Unique values: 3
Missing values: 1,108
Min: 0.00
Mean: 0.94
Max: 1.00
Std. Dev.: 0.24
Skew: -3.69

Value	Label	Freq.	Percent
0	No	992	5.7%
1	Yes	15454	88.0%
.		1108	6.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: SA_SELFCON
Type: Numeric
Variable label: Student self-concept in mathematics in general
Unique values: 34
Missing values: 1,047
Min: 1.00
Mean: 2.70
Max: 4.00
Std. Dev.: 0.62
Skew: -0.11

Value	Label	Freq.	Percent
1		191	1.1%
1.166667		131	0.7%
1.2		2	0.0%
1.333333		144	0.8%
1.5		211	1.2%
All other values		16871	96.1%

Percentiles:

10%	25%	50%	75%	90%
2	2.333333	2.666667	2.666667	3.5

Name: SA_LEARNGOAL
Type: Numeric
Variable label: Learning goal orientation in mathematics
Unique values: 14
Missing values: 1,048
Min: 1.00
Mean: 2.99
Max: 4.00
Std. Dev.: 0.74
Skew: -0.38

Value	Label	Freq.	Percent
1		252	1.4%
1.333333		210	1.2%
1.5		1	0.0%
1.666667		468	2.7%
2		1593	9.1%
All other values		13350	76.1%

Percentiles:

10%	25%	50%	75%	90%
2	2.333333	3	3	4

Name: SA_INSTMOT
Type: Numeric
Variable label: Student Instrumental motivation in mathematics
Unique values: 20
Missing values: 1,034
Min: 1.00
Mean: 3.13
Max: 4.00
Std. Dev.: 0.69
Skew: -0.64

Value	Label	Freq.	Percent
1		196	1.1%
1.25		104	0.6%
1.333333		2	0.0%
1.5		160	0.9%
1.666667		2	0.0%

All other values 16832 95.9%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name: SA_PERSEVERE

Type: Numeric

Variable label: Student Effort and perseverance in mathematics

Unique values: 19

Missing values: 1,025

Min: 1.00

Mean: 3.04

Max: 4.00

Std. Dev.: 0.68

Skew: -0.38

Value	Label	Freq.	Percent
1		99	0.6%
1.25		79	0.5%
1.5		176	1.0%
1.666667		3	0.0%
1.75		385	2.2%
All other values		15795	90.0%

Percentiles:

10%	25%	50%	75%	90%
2	2.5	3	3	4

Name: SA_TESTANX

Type: Numeric

Variable label: Student Test anxiety in mathematics

Unique values: 14

Missing values: 1,030

Min: 1.00

Mean: 2.75

Max: 4.00

Std. Dev.: 0.81

Skew: -0.34

Value	Label	Freq.	Percent
1		747	4.3%

1.333333	694	4.0%
1.5	8	0.0%
1.666667	819	4.7%
2	1686	9.6%
All other values	11750	66.9%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2.333333	3	3	4

Name: SA_HISTTEACHER
Type: Numeric
Variable label: Student Previous exposure to the same teacher
Unique values: 3
Missing values: 1,071
Min: 0.00
Mean: 0.44
Max: 1.00
Std. Dev.: 0.50
Skew: 0.24

Value	Label	Freq.	Percent
0		9204	52.4%
1		7279	41.5%
.		1071	6.1%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: SA_SINT_PREV
Type: Numeric
Variable label: Student's situational interest in mathematics based on their current year teacher, as recorded in the pre questionnaire
Unique values: 5
Missing values: 1,106
Min: 1.00
Mean: 2.53
Max: 4.00
Std. Dev.: 0.88
Skew: -0.02

Value	Label	Freq.	Percent
1		2068	11.8%
2		5917	33.7%
3		6149	35.0%
4		2314	13.2%
.		1106	6.3%

Percentiles:				
10%	25%	50%	75%	90%
1	2	3	3	4

Name: SA_PINT_CURR
Type: Numeric
Variable label: Student's personal interest in mathematics based on their current year teacher, as recorded in the pre questionnaire
Unique values: 14
Missing values: 1,031
Min: 1.00
Mean: 2.80
Max: 4.00
Std. Dev.: 0.74
Skew: -0.27

Value	Label	Freq.	Percent
1		551	3.1%
1.333333		362	2.1%
1.5		3	0.0%
1.666667		544	3.1%
2		1638	9.3%
All other values		12222	69.6%

Percentiles:				
10%	25%	50%	75%	90%
2	2.333333	2.666667	2.666667	4

Name: SA_SINT_CURR
Type: Numeric
Variable label: Student's situational interest in mathematics based on their current year teacher, as recorded in the pre questionnaire
Unique values: 5
Missing values: 1,048

Min: 1.00
 Mean: 2.74
 Max: 4.00
 Std. Dev.: 0.89
 Skew: -0.25

Value	Label	Freq.	Percent
1		1514	8.6%
2		4684	26.7%
3		6895	39.3%
4		3413	19.4%
.		1048	6.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SA_GENSELF EFF_CURR
Type: Numeric
Variable label: Student's general self-efficacy in mathematics based on their current year teacher, as recorded in the pre questionnaire

Unique values: 31
 Missing values: 1,057
 Min: 1.00
 Mean: 2.66
 Max: 4.00
 Std. Dev.: 0.82
 Skew: -0.22

Value	Label	Freq.	Percent
1		753	4.3%
1.2		468	2.7%
1.25		10	0.1%
1.333333		1	0.0%
1.4		531	3.0%
All other values		15772	89.8%

Percentiles:

10%	25%	50%	75%	90%
1.4	2	2.8	2.8	3.8

Name: SA_OTL

Type: Numeric
 Variable label: Student Opportunity-to-learn for mathematical tasks
 Unique values: 12
 Missing values: 1,159
 Min: 0.00
 Mean: 7.97
 Max: 10.00
 Std. Dev.: 2.04
 Skew: -1.33

Value	Label	Freq.	Percent
0		113	0.6%
1		101	0.6%
2		162	0.9%
3		279	1.6%
4		532	3.0%
All other values		15603	88.9%

Percentiles:

10%	25%	50%	75%	90%
5	7	9	9	10

Name: SA_EFFICACY
 Type: Numeric
 Variable label: Student Self-efficacy with mathematical tasks in general
 Unique values: 95
 Missing values: 1,236
 Min: 1.00
 Mean: 2.84
 Max: 4.00
 Std. Dev.: 0.67
 Skew: -0.18

Value	Label	Freq.	Percent
1		142	0.8%
1.1		25	0.1%
1.111111		1	0.0%
1.125		1	0.0%
1.2		34	0.2%
All other values		17349	98.8%

Percentiles:

10%	25%	50%	75%	90%
2	2.4	2.8	2.8	3.8

Name:	SA_USECONT			
Type:	Numeric			
Variable label:	Student Use of content related structure			
Unique values:	14			
Missing values:	1,052			
Min:	1.00			
Mean:	3.07			
Max:	4.00			
Std. Dev.:	0.54			
Skew:	-0.30			

Value	Label	Freq.	Percent	
1		90	0.5%	
1.333333		64	0.4%	
1.5		7	0.0%	
1.666667		96	0.5%	
2		499	2.8%	
All other values		15667	89.3%	

Percentiles:				
10%	25%	50%	75%	90%
2.333333	2.666667	3	3	4

Name:	SA_USECOGACT			
Type:	Numeric			
Variable label:	Student Actual cognitive activation			
Unique values:	14			
Missing values:	1,058			
Min:	1.00			
Mean:	2.83			
Max:	4.00			
Std. Dev.:	0.63			
Skew:	-0.10			

Value	Label	Freq.	Percent	
1		197	1.1%	
1.333333		168	1.0%	
1.5		8	0.0%	
1.666667		308	1.8%	
2		1602	9.1%	
All other values		12533	71.4%	

Percentiles:				
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10%	25%	50%	75%	90%
2	2.333333	3	3	3.666667

Name: SA_USESELFDET
Type: Numeric
Variable label: Student social-emotional support
Unique values: 14
Missing values: 1,064
Min: 1.00
Mean: 2.96
Max: 4.00
Std. Dev.: 0.63
Skew: -0.35

Value	Label	Freq.	Percent
1		152	0.9%
1.333333		179	1.0%
1.5		9	0.1%
1.666667		337	1.9%
2		1030	5.9%
All other values		14046	80.0%

Percentiles:

10%	25%	50%	75%	90%
2	2.666667	3	3	3.666667

Name: SA_USETOT
Type: Numeric
Variable label: Student Time on task
Unique values: 14
Missing values: 1,080
Min: 1.00
Mean: 3.07
Max: 4.00
Std. Dev.: 0.58
Skew: -0.25

Value	Label	Freq.	Percent
1		66	0.4%
1.333333		56	0.3%
1.5		3	0.0%
1.666667		203	1.2%
2		634	3.6%

All other values 15365 87.5%

Percentiles:

10%	25%	50%	75%	90%
2.333333	2.666667	3	3	4

Name: SA_CLARITY
Type: Numeric
Variable label: Student Clarity of instruction
Unique values: 20
Missing values: 1,046
Min: 1.00
Mean: 3.09
Max: 4.00
Std. Dev.: 0.68
Skew: -0.55

Value	Label	Freq.	Percent
1		76	0.4%
1.25		127	0.7%
1.333333		1	0.0%
1.5		253	1.4%
1.666667		5	0.0%
All other values		16692	95.1%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3.25	3.25	4

Name: SA_COGACT
Type: Numeric
Variable label: Student Cognitive activation score
Unique values: 20
Missing values: 1,070
Min: 1.00
Mean: 2.70
Max: 4.00
Std. Dev.: 0.69
Skew: 0.00

Value	Label	Freq.	Percent
1		133	0.8%

1.25	240	1.4%
1.333333	9	0.1%
1.5	609	3.5%
1.666667	27	0.2%
All other values	15626	89.0%

Percentiles:

10%	25%	50%	75%	90%
1.75	2.25	2.75	2.75	3.75

Name: SA_DISCOURSE
Type: Numeric
Variable label: Student Discourse score
Unique values: 14
Missing values: 1,082
Min: 1.00
Mean: 2.80
Max: 4.00
Std. Dev.: 0.80
Skew: -0.22

Value	Label	Freq.	Percent
1		386	2.2%
1.333333		637	3.6%
1.5		16	0.1%
1.666667		1114	6.3%
2		1851	10.5%
All other values		11683	66.6%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2.333333	3	3	4

Name: SA_ADAPT
Type: Numeric
Variable label: Student Teacher's adaption of instruction
Unique values: 30
Missing values: 1,082
Min: 1.00
Mean: 2.92
Max: 4.00

Std. Dev.: 0.56
Skew: -0.40

Value	Label	Freq.	Percent
1		86	0.5%
1.2		55	0.3%
1.4		119	0.7%
1.5		4	0.0%
1.6		172	1.0%
All other values		17114	97.5%

Percentiles:

10%	25%	50%	75%	90%
2.2	2.6	3	3	3.6

Name: SA_CLASSMAN
Type: Numeric
Variable label: Student Classroom management score
Unique values: 73
Missing values: 1,078
Min: 1.00
Mean: 3.00
Max: 4.00
Std. Dev.: 0.46
Skew: -0.06

Value	Label	Freq.	Percent
1		2	0.0%
1.1		2	0.0%
1.2		2	0.0%
1.3		8	0.0%
1.4		8	0.0%
All other values		17531	99.9%

Percentiles:

10%	25%	50%	75%	90%
2.444444	2.7	3	3	3.6

Name: SA_CM_DISRUPT
Type: Numeric
Variable label: Student Classroom disruptions
Unique values: 14

Missing values: 1,061
 Min: 1.00
 Mean: 2.77
 Max: 4.00
 Std. Dev.: 0.80
 Skew: -0.26

Value	Label	Freq.	Percent
1		686	3.9%
1.333333		489	2.8%
1.5		12	0.1%
1.666667		817	4.7%
2		2032	11.6%
All other values		11702	66.7%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2.333333	3	3	4

Name: SA_CM_TEACHMAN
Type: Numeric
Variable label: Student Teacher management of classroom disruptions
Unique values: 20
Missing values: 1,089
Min: 1.00
Mean: 3.11
Max: 4.00
Std. Dev.: 0.61
Skew: -0.60

Value	Label	Freq.	Percent
1		126	0.7%
1.25		73	0.4%
1.333333		4	0.0%
1.5		137	0.8%
1.666667		5	0.0%
All other values		17021	97.0%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name: SA_TESUP
Type: Numeric
Variable label: Student Perceived teacher support
Unique values: 14
Missing values: 1,111
Min: 1.00
Mean: 3.28
Max: 4.00
Std. Dev.: 0.64
Skew: -0.78

Value	Label	Freq.	Percent
1		154	0.9%
1.333333		103	0.6%
1.5		7	0.0%
1.666667		151	0.9%
2		377	2.1%
All other values		16060	91.5%

Percentiles:

10%	25%	50%	75%	90%
2.666667	3	3.333333	3.333333	4

Name: SA_SUPCOM
Type: Numeric
Variable label: Student Perceived teacher support for competence
Unique values: 20
Missing values: 1,116
Min: 1.00
Mean: 3.10
Max: 4.00
Std. Dev.: 0.71
Skew: -0.62

Value	Label	Freq.	Percent
1		234	1.3%
1.25		158	0.9%
1.333333		4	0.0%
1.5		203	1.2%
1.666667		7	0.0%
All other values		16673	95.0%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name:	SA_SUPAUT			
Type:	Numeric			
Variable label:	Student Perceived teacher support for autonomy			
Unique values:	20			
Missing values:	1,126			
Min:	1.00			
Mean:	3.02			
Max:	4.00			
Std. Dev.:	0.62			
Skew:	-0.42			

Value	Label	Freq.	Percent
1		154	0.9%
1.25		72	0.4%
1.333333		1	0.0%
1.5		150	0.9%
1.666667		4	0.0%
All other values		16919	96.4%

Percentiles:				
10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name:	SA_REL_STUDTEACH			
Type:	Numeric			
Variable label:	Student Student-teacher relationship			
Unique values:	32			
Missing values:	1,119			
Min:	1.00			
Mean:	3.15			
Max:	4.00			
Std. Dev.:	0.63			
Skew:	-0.58			

Value	Label	Freq.	Percent
1		155	0.9%
1.2		47	0.3%
1.25		1	0.0%
1.333333		2	0.0%
1.4		91	0.5%
All other values		17254	98.3%

Percentiles:

10%	25%	50%	75%	90%
2.4	2.8	3	3	4

Name: SA_REL_STUDSTUD
Type: Numeric
Variable label: Student Student-student relationship
Unique values: 20
Missing values: 1,112
Min: 1.00
Mean: 3.30
Max: 4.00
Std. Dev.: 0.64
Skew: -0.81

Value	Label	Freq.	Percent
1		51	0.3%
1.25		36	0.2%
1.333333		2	0.0%
1.5		73	0.4%
1.666667		7	0.0%
All other values		17035	97.0%

Percentiles:

10%	25%	50%	75%	90%
2.25	3	3.5	3.5	4

Name: SA_TESTDIFF
Type: Numeric
Variable label: Student Perception of the test – difficulty
Unique values: 5
Missing values: 1,260
Min: 1.00
Mean: 1.56
Max: 4.00
Std. Dev.: 0.81
Skew: 1.40

Value	Label	Freq.	Percent
1		9925	56.5%
2		4277	24.4%
3		1481	8.4%
4		611	3.5%

. 1260 7.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SA_TESTMOT
Type: Numeric
Variable label: Student Perception of the test – motivation
Unique values: 5
Missing values: 1,247
Min: 1.00
Mean: 1.97
Max: 4.00
Std. Dev.: 0.84
Skew: 0.73

Value	Label	Freq.	Percent
1		4889	27.9%
2		8094	46.1%
3		2254	12.8%
4		1070	6.1%
.		1247	7.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SA_TESTASP
Type: Numeric
Variable label: Student Perception of the test – aspiration
Unique values: 5
Missing values: 1,231
Min: 1.00
Mean: 2.77
Max: 4.00
Std. Dev.: 0.99
Skew: -0.29

Value	Label	Freq.	Percent
1		2052	11.7%
2		4253	24.2%

3	5455	31.1%
4	4563	26.0%
.	1231	7.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SA_PARED
Type: Numeric
Variable label: Parents' highest level of education
Unique values: 18
Missing values: 1,430
Min: 3.00
Mean: 13.73
Max: 18.00
Std. Dev.: 2.98
Skew: -0.97

Value	Label	Freq.	Percent
3		132	0.8%
5		198	1.1%
6		155	0.9%
7		4	0.0%
8		254	1.4%
All other values		15734	89.6%

Percentiles:

10%	25%	50%	75%	90%
9	12	14	14	16.5

Name: SA_HOMEPOS_IRT
Type: Numeric
Variable label: IRT graded response model for home possessions
Unique values: 16,317
Missing values: 0
Min: -4.11
Mean: 0.00
Max: 3.04
Std. Dev.: 0.88
Skew: -0.04

Value	Label	Freq.	Percent
-4.108295		1	0.0%
-4.04769		1	0.0%
-3.955452		1	0.0%
-3.866455		1	0.0%
-3.584684		1	0.0%
All other values		17547	100.0%

Percentiles:				
10%	25%	50%	75%	90%
-1.132093	-5.729886	-5.64e-18	-5.64e-18	1.136086

Name: SA_NUMQMISS
Type: Numeric
Variable label: Counts of number of questions with missing responses
Unique values: 117
Missing values: 0
Min: 0.00
Mean: 12.37
Max: 171.00
Std. Dev.: 37.04
Skew: 3.68

Value	Label	Freq.	Percent
0		6745	38.4%
1		2846	16.2%
2		1119	6.4%
3		790	4.5%
4		623	3.5%
All other values		4400	25.1%

Percentiles:				
10%	25%	50%	75%	90%
0	0	1	1	13

Name: SPLIT
Type: String
Variable label: Instrument split
Unique values: 3
Missing values: 15,053

Value	Label	Freq.	Percent
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	15053	85.8%
SPLIT	352	2.0%
UNSPLIT	2149	12.2%

Name:	SQANQ34		
Type:	Numeric		
Variable label:	34. Are you studying mathematics in a cram school, with a tutor, or in another after-school program?		
Unique values:	3		
Missing values:	0		
Min:	1.00		
Mean:	1.27		
Max:	2.00		
Std. Dev.:	0.44		
Skew:	1.03		
Value	Label	Freq.	Percent
1	Yes	1755	10.0%
2	No	654	3.7%
9999	Missing	15145	86.3%

Percentiles:				
10%	25%	50%	75%	90%
1	1	1	1	2

Name:	SQANQ35		
Type:	Numeric		
Variable label:	35. How many times per week do you study at a cram school?		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	1.77		
Max:	4.00		
Std. Dev.:	0.82		
Skew:	0.74		
Value	Label	Freq.	Percent
1	Once per week	801	4.6%
2	Twice per week	636	3.6%
3	Three to four days per week	295	1.7%
4	Five or more days per week	47	0.3%

9999 Missing 15775 89.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SQANQ36
Type: Numeric
Variable label: 36. What is the purpose of your studying mathematics at a cram school?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 3.09
Max: 4.00
Std. Dev.: 0.82
Skew: -0.70

Value	Label	Freq.	Percent
1	I don't know	91	0.5%
2	To keep up with schoolwork	270	1.5%
3	To obtain good grades on school exams	842	4.8%
4	To get into high schools that emphasize preparing students for university	615	3.5%
9997	Illegible response	1	0.0%
All other values		15730	89.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQANQ37_1
Type: Numeric
Variable label: 37.a. Did you learn the following mathematics topic in a cram school: factor decomposition
Unique values: 5
Missing values: 0

Min: 1.00
 Mean: 2.95
 Max: 3.00
 Std. Dev.: 0.31
 Skew: -5.80

Value	Label	Freq.	Percent
1	I don't know	38	0.2%
2	Have not learned yet	22	0.1%
3	Have finished learning	1753	10.0%
9997	Illegible response	1	0.0%
9999	Missing	15740	89.7%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	3

Name: SQANQ37_2
Type: Numeric
Variable label: 37.b. Did you learn the following mathematics topic in a cram school: square roots
Unique values: 6
Missing values: 0
 Min: 1.00
 Mean: 2.91
 Max: 3.00
 Std. Dev.: 0.36
 Skew: -4.19

Value	Label	Freq.	Percent
1	I don't know	43	0.2%
2	Have not learned yet	79	0.5%
3	Have finished learning	1688	9.6%
9997	Illegible response	1	0.0%
9998	Multiple responses	4	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	3

Name: SQANQ37_3

Type: Numeric
 Variable label: 37.b. Did you learn the following mathematics topic in a cram school: quadratic equation
 Unique values: 4
 Missing values: 0
 Min: 1.00
 Mean: 2.36
 Max: 3.00
 Std. Dev.: 0.62
 Skew: -0.44

Value	Label	Freq.	Percent
1	I don't know	141	0.8%
2	Have not learned yet	866	4.9%
3	Have finished learning	790	4.5%
9999	Missing	15757	89.8%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	3

Name: SQA03_ORIG
 Type: Numeric
 Variable label: Original SQA_03 gender variable for Japan, which required recoding
 Unique values: 3
 Missing values: 0
 Min: 1.00
 Mean: 1.50
 Max: 2.00
 Std. Dev.: 0.50
 Skew: 0.00

Value	Label	Freq.	Percent
1	Male	1217	6.9%
2	Female	1216	6.9%
9999	Missing	15121	86.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQA_STARTTIME1

Type: String
Variable label: Start time of first section of SQA
Unique values: 129
Missing values: 15,119

Value	Label	Freq.	Percent
		15119	86.1%
10:00		24	0.1%
10:10		13	0.1%
10:11		7	0.0%
10:12		8	0.0%
All other values		2382	13.6%

Name: SQA_ENDTIME1
Type: String
Variable label: End time of first section of SQA
Unique values: 176
Missing values: 16,292

Value	Label	Freq.	Percent
		16292	92.8%
10:00		3	0.0%
10:01		1	0.0%
10:02		1	0.0%
10:04		2	0.0%
All other values		1254	7.1%

Name: SQA_STARTTIME2
Type: String
Variable label: Start time of second section of SQA
Unique values: 153
Missing values: 16,292

Value	Label	Freq.	Percent
		16292	92.8%
10:00		2	0.0%
10:01		1	0.0%
10:02		2	0.0%
10:04		1	0.0%
All other values		1255	7.1%

Name:	SQA_ENDTIME2		
Type:	String		
Variable label:	End time of second section of SQA		
Unique values:	207		
Missing values:	16,292		
Value	Label	Freq.	Percent
		16292	92.8%
10:01		1	0.0%
10:03		1	0.0%
10:05		2	0.0%
10:06		1	0.0%
All other values		1256	7.2%

Name:	SQA_STARTTIME3		
Type:	String		
Variable label:	Start time of third section of SQA		
Unique values:	203		
Missing values:	16,292		
Value	Label	Freq.	Percent
		16292	92.8%
10:00		1	0.0%
10:01		1	0.0%
10:03		1	0.0%
10:05		1	0.0%
All other values		1257	7.2%

Name:	SQA_ENDTIME3		
Type:	String		
Variable label:	End time of third section of SQA		
Unique values:	350		
Missing values:	15,119		
Value	Label	Freq.	Percent
		15119	86.1%
10:00		10	0.1%
10:02		4	0.0%
10:03		6	0.0%
10:04		3	0.0%
All other values		2408	13.7%

Name:	MINUTES_1_SQA		
Type:	String		
Variable label:	Time taken to complete first section of SQA		
Unique values:	25		
Missing values:	16,672		
Value	Label	Freq.	Percent
		16672	95.0%
0		6	0.0%
1		4	0.0%
10		184	1.0%
11		31	0.2%
All other values		598	3.4%

Name:	MINUTES_2_SQA		
Type:	String		
Variable label:	Time taken to complete second section of SQA		
Unique values:	25		
Missing values:	16,718		
Value	Label	Freq.	Percent
		16718	95.2%
0		3	0.0%
1		3	0.0%
10		163	0.9%
11		32	0.2%
All other values		615	3.5%

Name:	MINUTES_3_SQA		
Type:	String		
Variable label:	Time taken to complete third section of SQA		
Unique values:	25		
Missing values:	16,701		
Value	Label	Freq.	Percent
		16701	95.1%
0		8	0.0%
1		8	0.0%
10		106	0.6%
12		3	0.0%
All other values		726	4.1%

Name: SQB01A
Type: Numeric
Variable label: 1.a. During unit on quadratic equations: Learning about quadratic equations was easy for me.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.71
Max: 4.00
Std. Dev.: 0.81
Skew: -0.22

Value	Label	Freq.	Percent
1	Strongly disagree	1125	6.4%
2	Disagree	4902	27.9%
3	Agree	7552	43.0%
4	Strongly agree	2553	14.5%
9999	Missing	1422	8.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB01B
Type: Numeric
Variable label: 1.b. During unit on quadratic equations: I was able to give good answers to questions on the topic of quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.74
Max: 4.00
Std. Dev.: 0.76
Skew: -0.26

Value	Label	Freq.	Percent
1	Strongly disagree	877	5.0%
2	Disagree	4717	26.9%
3	Agree	8266	47.1%
4	Strongly agree	2236	12.7%
9999	Missing	1458	8.3%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB01C
Type: Numeric
Variable label: 1.c. During unit on quadratic equations: I learned about quadratic equations quickly.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.69
Max: 4.00
Std. Dev.: 0.84
Skew: -0.09

Value	Label	Freq.	Percent
1	Strongly disagree	1162	6.6%
2	Disagree	5466	31.1%
3	Agree	6610	37.7%
4	Strongly agree	2818	16.1%
9999	Missing	1498	8.5%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB01D
Type: Numeric
Variable label: 1.d. During unit on quadratic equations: Quadratic equations were easy for me.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.60
Max: 4.00
Std. Dev.: 0.84
Skew: -0.01

Value	Label	Freq.	Percent
1	Strongly disagree	1402	8.0%
2	Disagree	6015	34.3%
3	Agree	6286	35.8%
4	Strongly agree	2369	13.5%
9999	Missing	1482	8.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB01E

Type: Numeric

Variable label: 1.e. During unit on quadratic equations: When I was taught the topic of quadratic equations, I could understand the concepts very well.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.83

Max: 4.00

Std. Dev.: 0.81

Skew: -0.31

Value	Label	Freq.	Percent
1	Strongly disagree	875	5.0%
2	Disagree	4202	23.9%
3	Agree	7820	44.5%
4	Strongly agree	3211	18.3%
9999	Missing	1446	8.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB01F

Type: Numeric

Variable label: 1.f. During unit on quadratic equations: I could easily understand new ideas regarding quadratic equations.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.70

Max: 4.00

Std. Dev.: 0.81

Skew: -0.13

Value	Label	Freq.	Percent
1	Strongly disagree	1038	5.9%
2	Disagree	5303	30.2%
3	Agree	7144	40.7%

4	Strongly agree	2626	15.0%
9999	Missing	1443	8.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB02A
Type: Numeric
Variable label: 2.a. I believed I would receive an excellent mark for the topic of quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.35
Max: 4.00
Std. Dev.: 0.88
Skew: 0.25

Value	Label	Freq.	Percent
1	Not at all true of me	2545	14.5%
2	Slightly true of me	7131	40.6%
3	Very true of me	4608	26.3%
4	Extremely true of me	1828	10.4%
9999	Missing	1442	8.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB02B
Type: Numeric
Variable label: 2.b. I was confident I would understand the most difficult material covered during the unit on quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.30
Max: 4.00
Std. Dev.: 0.91
Skew: 0.20

Value	Label	Freq.	Percent
1	Not at all true of me	3304	18.8%
2	Slightly true of me	6384	36.4%
3	Very true of me	4809	27.4%
4	Extremely true of me	1628	9.3%
9999	Missing	1429	8.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB02C
Type: Numeric
Variable label: 2.c. I was confident I could do an excellent job on the assignments and tests during the unit on quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.45
Max: 4.00
Std. Dev.: 0.90
Skew: 0.05

Value	Label	Freq.	Percent
1	Not at all true of me	2416	13.8%
2	Slightly true of me	6034	34.4%
3	Very true of me	5588	31.8%
4	Extremely true of me	2070	11.8%
9999	Missing	1446	8.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB02D
Type: Numeric
Variable label: 2.d. I expected to do well in quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.65

Max: 4.00
Std. Dev.: 0.93
Skew: -0.21

Value	Label	Freq.	Percent
1	Not at all true of me	2021	11.5%
2	Slightly true of me	4596	26.2%
3	Very true of me	6419	36.6%
4	Extremely true of me	3066	17.5%
9999	Missing	1452	8.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB02E
Type: Numeric
Variable label: 2.e. I was confident I could master the skills being taught during the unit on quadratic equations.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.64
Max: 4.00
Std. Dev.: 0.88
Skew: -0.11

Value	Label	Freq.	Percent
1	Not at all true of me	1638	9.3%
2	Slightly true of me	5347	30.5%
3	Very true of me	6365	36.3%
4	Extremely true of me	2771	15.8%
9999	Missing	1433	8.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB03A
Type: Numeric
Variable label: 3.a. During unit on quadratic equations: I was interested in the topic of quadratic equations.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.80
 Max: 4.00
 Std. Dev.: 0.85
 Skew: -0.44

Value	Label	Freq.	Percent
1	Strongly disagree	1381	7.9%
2	Disagree	3657	20.8%
3	Agree	7922	45.1%
4	Strongly agree	3161	18.0%
9999	Missing	1433	8.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB03B

Type: Numeric

Variable label: 3.b. During unit on quadratic equations: I often thought that what we were talking about in my mathematics class during the unit on quadratic equations was interesting.

Unique values: 5

Missing values: 0

values:

Min: 1.00

Mean: 2.71

Max: 4.00

Std. Dev.: 0.84

Skew: -0.30

Value	Label	Freq.	Percent
1	Strongly disagree	1379	7.9%
2	Disagree	4441	25.3%
3	Agree	7684	43.8%
4	Strongly agree	2605	14.8%
9999	Missing	1445	8.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB03C
Type: Numeric
Variable label: 3.c. During unit on quadratic equations: After my mathematics class on the topic of quadratic equations I was often already curious about the next mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.39
Max: 4.00
Std. Dev.: 0.89
Skew: 0.15

Value	Label	Freq.	Percent
1	Strongly disagree	2592	14.8%
2	Disagree	6530	37.2%
3	Agree	5084	29.0%
4	Strongly agree	1898	10.8%
9999	Missing	1450	8.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB03D
Type: Numeric
Variable label: 3.d. During unit on quadratic equations: I wanted to deal more intensively with the topic of quadratic equations discussed in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.51
Max: 4.00
Std. Dev.: 0.89
Skew: -0.03

Value	Label	Freq.	Percent
1	Strongly disagree	2203	12.5%
2	Disagree	5679	32.4%
3	Agree	6048	34.5%
4	Strongly agree	2178	12.4%
9999	Missing	1446	8.2%

Percentiles:

10%	25%	50%	75%	90%

1

2

3

3

4

Name: SQB04
Type: Numeric
Variable label: 4. How many lessons where you absent during the unit on quadratic equations?
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.35
Max: 4.00
Std. Dev.: 0.65
Skew: 2.04

Value	Label	Freq.	Percent
1	None	11707	66.7%
2	One or two	3446	19.6%
3	Three or four	648	3.7%
4	Five or more	298	1.7%
9999	Missing	1455	8.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQB05A
Type: Numeric
Variable label: 5.a. Avg hours per week on: Homework quadratic equations set by your maths teacher on your own.
Unique values: 64
Missing values: 0
Min: 0.00
Mean: 3.12
Max: 168.00
Std. Dev.: 4.62
Skew: 13.76

Value	Label	Freq.	Percent
0		1680	9.6%
.009999999776482582092		1	0.0%
.1000000014901161194		5	0.0%
.1666000038385391235		1	0.0%
.2000000029802322388		5	0.0%

All other values 15861 90.4%

Percentiles:				
10%	25%	50%	75%	90%
0	1	2	2	7

Name: SQB05B
Type: Numeric
Variable label: 5.b. Avg hours per week on: Homework quadratic equations set by your maths teacher w/ somebody supervising & providing help if necessary.
Unique values: 61
Missing values: 0
Min: 0.00
Mean: 1.84
Max: 168.00
Std. Dev.: 4.38
Skew: 18.82

Value	Label	Freq.	Percent
0		5558	31.7%
.009999999776482582092		1	0.0%
.10000000000000000056		1	0.0%
.1000000014901161194		3	0.0%
.1499999999999999944		1	0.0%
All other values		11986	68.3%

Percentiles:				
10%	25%	50%	75%	90%
0	0	1	1	4

Name: SQB05C
Type: Numeric
Variable label: 5.c. Avg hours per week on: Additional study on quadratic equations
Unique values: 60
Missing values: 0
Min: 0.00
Mean: 1.69
Max: 168.00
Std. Dev.: 3.95
Skew: 20.64

Value	Label	Freq.	Percent
-------	-------	-------	---------

0	5757	32.8%
.050000000000000000278	1	0.0%
.100000000000000000056	2	0.0%
.1000000014901161194	1	0.0%
.170000000000000000122	1	0.0%
All other values	11791	67.2%

Percentiles:				
10%	25%	50%	75%	90%
0	0	1	1	4

Name:	SQB05D
Type:	Numeric
Variable label:	5.d. Avg hours per week on: Time spent on working on other subjects than mathematics.
Unique values:	111
Missing values:	0
Min:	0.00
Mean:	7.29
Max:	200.00
Std. Dev.:	10.45
Skew:	5.96

Value	Label	Freq.	Percent
0		863	4.9%
.3000000119209289551		1	0.0%
.5		26	0.1%
.75		1	0.0%
.8999999761581420898		1	0.0%
All other values		14807	84.4%

Percentiles:				
10%	25%	50%	75%	90%
1	2	4	4	16

Name:	SQB05D_C
Type:	String
Variable label:	SQB05D, Original character value
Unique values:	144
Missing values:	2,651

Value	Label	Freq.	Percent
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	2651	15.1%
.	814	4.6%
0	787	4.5%
0.0	17	0.1%
0.5	19	0.1%
All other values	13265	75.6%

Name:	SQB06A
Type:	Numeric
Variable label:	6.a. During unit on quadratic equations, agree or disagree: I tried to work out what the most important parts to learn were.
Unique values:	5
Missing values:	0
Min:	1.00
Mean:	3.09
Max:	4.00
Std. Dev.:	0.66
Skew:	-0.60

Value	Label	Freq.	Percent
1	Strongly disagree	385	2.2%
2	Disagree	1666	9.5%
3	Agree	10202	58.1%
4	Strongly agree	3861	22.0%
9999	Missing	1440	8.2%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name:	SQB06B
Type:	Numeric
Variable label:	6.b. During unit on quadratic equations, agree or disagree: I started by working out exactly what I needed to do.
Unique values:	5
Missing values:	0
Min:	1.00
Mean:	2.99
Max:	4.00
Std. Dev.:	0.70
Skew:	-0.45

Value	Label	Freq.	Percent
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1	Strongly disagree	419	2.4%
2	Disagree	2741	15.6%
3	Agree	9562	54.5%
4	Strongly agree	3361	19.1%
9999	Missing	1471	8.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB06C

Type: Numeric

Variable label: 6.c. During unit on quadratic equations, agree or disagree: I tried to understand new concepts by relating them to things I already knew.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.98

Max: 4.00

Std. Dev.: 0.73

Skew: -0.46

Value	Label	Freq.	Percent
1	Strongly disagree	508	2.9%
2	Disagree	2909	16.6%
3	Agree	9105	51.9%
4	Strongly agree	3550	20.2%
9999	Missing	1482	8.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB06D

Type: Numeric

Variable label: 6.d. During unit on quadratic equations, agree or disagree: I kept thinking about tasks until I really understood them.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.93

Max: 4.00
Std. Dev.: 0.77
Skew: -0.40

Value	Label	Freq.	Percent
1	Strongly disagree	644	3.7%
2	Disagree	3445	19.6%
3	Agree	8373	47.7%
4	Strongly agree	3609	20.6%
9999	Missing	1483	8.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB06E

Type: Numeric

Variable label: 6.e. During unit on quadratic equations, agree or disagree: I was thinking intensively about the mathematical content.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.80

Max: 4.00

Std. Dev.: 0.78

Skew: -0.26

Value	Label	Freq.	Percent
1	Strongly disagree	802	4.6%
2	Disagree	4456	25.4%
3	Agree	8000	45.6%
4	Strongly agree	2808	16.0%
9999	Missing	1488	8.5%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB06F

Type: Numeric

Variable label: 6.f. During unit on quadratic equations, agree or disagree: I developed my own ideas.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.70
 Max: 4.00
 Std. Dev.: 0.82
 Skew: -0.13

Value	Label	Freq.	Percent
1	Strongly disagree	1062	6.0%
2	Disagree	5311	30.3%
3	Agree	7099	40.4%
4	Strongly agree	2606	14.8%
9999	Missing	1476	8.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB06G
Type: Numeric
Variable label: 6.g. During unit on quadratic equations, agree or disagree: I felt that I could decide on things on my own.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.79
 Max: 4.00
 Std. Dev.: 0.80
 Skew: -0.30

Value	Label	Freq.	Percent
1	Strongly disagree	974	5.5%
2	Disagree	4324	24.6%
3	Agree	7879	44.9%
4	Strongly agree	2871	16.4%
9999	Missing	1506	8.6%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB06H
Type: Numeric
Variable label: 6.h. During unit on quadratic equations, agree or disagree: I felt understood by my mathematics teacher.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.95
Max: 4.00
Std. Dev.: 0.83
Skew: -0.58

Value	Label	Freq.	Percent
1	Strongly disagree	1033	5.9%
2	Disagree	2853	16.3%
3	Agree	8085	46.1%
4	Strongly agree	4074	23.2%
9999	Missing	1509	8.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB06I
Type: Numeric
Variable label: 6.i. During unit on quadratic equations, agree or disagree: I felt confident in my ability to learn this material.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.89
Max: 4.00
Std. Dev.: 0.82
Skew: -0.45

Value	Label	Freq.	Percent
1	Strongly disagree	979	5.6%
2	Disagree	3468	19.8%
3	Agree	7893	45.0%
4	Strongly agree	3711	21.1%
9999	Missing	1503	8.6%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB06J
Type: Numeric
Variable label: 6.j. During unit on quadratic equations, agree or disagree: I paid attention in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.23
Max: 4.00
Std. Dev.: 0.68
Skew: -0.68

Value	Label	Freq.	Percent
1	Strongly disagree	303	1.7%
2	Disagree	1413	8.0%
3	Agree	8609	49.0%
4	Strongly agree	5744	32.7%
9999	Missing	1485	8.5%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB06K
Type: Numeric
Variable label: 6.k. During unit on quadratic equations, agree or disagree: I listened to the instruction given in class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.28
Max: 4.00
Std. Dev.: 0.66
Skew: -0.72

Value	Label	Freq.	Percent
1	Strongly disagree	261	1.5%
2	Disagree	1055	6.0%
3	Agree	8617	49.1%
4	Strongly agree	6131	34.9%
9999	Missing	1490	8.5%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	4

Name: SQB06L
Type: Numeric
Variable label: 6.l. During unit on quadratic equations, agree or disagree: I let my mind wander during the lessons.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.12
Max: 4.00
Std. Dev.: 0.90
Skew: 0.36

Value	Label	Freq.	Percent
1	Strongly disagree	4437	25.3%
2	Disagree	6378	36.3%
3	Agree	4063	23.1%
4	Strongly agree	1152	6.6%
9999	Missing	1524	8.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SQB07EA
Type: Numeric
Variable label: 7.a. Encounter: Plotting the graph of $y = x^2$.

Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.32
Max: 2.00
Std. Dev.: 0.47
Skew: 0.75

Value	Label	Freq.	Percent
1	Yes	10783	61.4%
2	No	5178	29.5%
9999	Missing	1593	9.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQB07EB
Type: Numeric
Variable label: 7.b. Encounter: Solving a problem like ?? $2 - 4 = 0$ by inspection.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.10
Max: 2.00
Std. Dev.: 0.31
Skew: 2.59

Value	Label	Freq.	Percent
1	Yes	14274	81.3%
2	No	1658	9.4%
9999	Missing	1622	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQB07EC
Type: Numeric
Variable label: 7.c. Encounter: Finding all values of x for which $(x - 4)(x + 5) = 0$.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.05
Max: 2.00
Std. Dev.: 0.22
Skew: 4.05

Value	Label	Freq.	Percent
1	Yes	15102	86.0%
2	No	823	4.7%
9999	Missing	1629	9.3%

Percentiles:

10%	25%	50%	75%	90%
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1 1 1 1 1

Name: SQB07ED
Type: Numeric
Variable label: 7.d. Encounter: Using the binomial formula $(a+b)^2=a^2+2ab+b^2$ when solving a problem like $??^2 + 6?? + 9 = 0$.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.19
Max: 2.00
Std. Dev.: 0.40
Skew: 1.55

Value	Label	Freq.	Percent
1	Yes	12869	73.3%
2	No	3088	17.6%
9999	Missing	1597	9.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQB07EE
Type: Numeric
Variable label: 7.e. Encounter: Solving any quadratic equation (example: $4x^2+6x+3 = 0$).
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.06
Max: 2.00
Std. Dev.: 0.24
Skew: 3.72

Value	Label	Freq.	Percent
1	Yes	14994	85.4%
2	No	950	5.4%
9999	Missing	1610	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name:	SQB07EF				
Type:	Numeric				
Variable label:	7.f. Encounter: Using different ways when solving a quadratic equation.				
Unique values:	3				
Missing values:	0				
Min:	1.00				
Mean:	1.09				
Max:	2.00				
Std. Dev.:	0.28				
Skew:	2.89				
Value	Label	Freq.	Percent		
1	Yes	14524	82.7%		
2	No	1418	8.1%		
9999	Missing	1612	9.2%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	1

Name:	SQB07EG				
Type:	Numeric				
Variable label:	7.g. Encounter: Explaining when a quadratic equation has one, two or no solutions.				
Unique values:	3				
Missing values:	0				
Min:	1.00				
Mean:	1.12				
Max:	2.00				
Std. Dev.:	0.33				
Skew:	2.31				
Value	Label	Freq.	Percent		
1	Yes	13960	79.5%		
2	No	1943	11.1%		
9999	Missing	1651	9.4%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	2

Name:	SQB07EH				
Type:	Numeric				
Variable label:	7.h. Encounter: Checking if an equation like $2x^2+3x+1$ has any real solution.				
Unique values:	3				
Missing values:	0				
Min:	1.00				
Mean:	1.22				
Max:	2.00				
Std. Dev.:	0.41				
Skew:	1.37				
Value	Label	Freq.	Percent		
1	Yes	12423	70.8%		
2	No	3438	19.6%		
9999	Missing	1693	9.6%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	2

Name:	SQB07EI				
Type:	Numeric				
Variable label:	7.i. Encounter: Calculating the highest point of a ball that is thrown diagonally into the air.				
Unique values:	3				
Missing values:	0				
Min:	1.00				
Mean:	1.63				
Max:	2.00				
Std. Dev.:	0.48				
Skew:	-0.53				
Value	Label	Freq.	Percent		
1	Yes	5899	33.6%		
2	No	9986	56.9%		
9999	Missing	1669	9.5%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	2	2	2

Name: SQB07EJ
Type: Numeric
Variable label: 7.j. Encounter: Calculating the distance a car has travelled after a certain time of acceleration.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.50
Max: 2.00
Std. Dev.: 0.50
Skew: 0.01

Value	Label	Freq.	Percent
1	Yes	7963	45.4%
2	No	7918	45.1%
9999	Missing	1673	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQB07EK
Type: Numeric
Variable label: 7.k. Encounter: Finding the roots of a quadratic function.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.38
Max: 2.00
Std. Dev.: 0.49
Skew: 0.48

Value	Label	Freq.	Percent
1	Yes	9806	55.9%
2	No	6071	34.6%
9999	Missing	1677	9.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQB07CA

Type: Numeric
 Variable label: 7.a. Confident: Plotting the graph of $y = x^2$.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.66
 Max: 4.00
 Std. Dev.: 0.90
 Skew: -0.19

Value	Label	Freq.	Percent
1	Not at all confident	1711	9.7%
2	Not very confident	4657	26.5%
3	Confident	6229	35.5%
4	Very confident	2888	16.5%
9999	Missing	2069	11.8%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB07CB
 Type: Numeric
 Variable label: 7.b. Confident: Solving a problem like ?? $2 - 4 = 0$ by inspection.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.91
 Max: 4.00
 Std. Dev.: 0.88
 Skew: -0.40

Value	Label	Freq.	Percent
1	Not at all confident	1032	5.9%
2	Not very confident	3773	21.5%
3	Confident	6498	37.0%
4	Very confident	4429	25.2%
9999	Missing	1822	10.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name:	SQB07CC				
Type:	Numeric				
Variable label:	7.c. Confident: Finding all values of x for which $(x - 4)(x + 5) = 0$.				
Unique values:	5				
Missing values:	0				
Min:	1.00				
Mean:	3.02				
Max:	4.00				
Std. Dev.:	0.88				
Skew:	-0.53				
Value	Label	Freq.	Percent		
1	Not at all confident	870	5.0%		
2	Not very confident	3280	18.7%		
3	Confident	6297	35.9%		
4	Very confident	5322	30.3%		
9999	Missing	1785	10.2%		
Percentiles:					
	10%	25%	50%	75%	90%
	2	2	3	3	4

Name:	SQB07CD				
Type:	Numeric				
Variable label:	7.d. Confident: Using the binomial formula $(a+b)^2=a^2+2ab+b^2$ when solving a problem like $2^2 + 6^2 + 9 = 0$.				
Unique values:	5				
Missing values:	0				
Min:	1.00				
Mean:	2.74				
Max:	4.00				
Std. Dev.:	1.01				
Skew:	-0.27				
Value	Label	Freq.	Percent		
1	Not at all confident	2177	12.4%		
2	Not very confident	3991	22.7%		
3	Confident	5223	29.8%		
4	Very confident	4219	24.0%		
9999	Missing	1944	11.1%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	2	3	3	4

Name: SQB07CE
Type: Numeric
Variable label: 7.e. Confident: Solving any quadratic equation (example: $4x^2+6x+3 = 0$).
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.95
Max: 4.00
Std. Dev.: 0.88
Skew: -0.46

Value	Label	Freq.	Percent
1	Not at all confident	1022	5.8%
2	Not very confident	3528	20.1%
3	Confident	6560	37.4%
4	Very confident	4736	27.0%
9999	Missing	1708	9.7%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB07CF
Type: Numeric
Variable label: 7.f. Confident: Using different ways when solving a quadratic equation.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.84
Max: 4.00
Std. Dev.: 0.86
Skew: -0.35

Value	Label	Freq.	Percent
1	Not at all confident	1109	6.3%
2	Not very confident	3943	22.5%
3	Confident	6955	39.6%
4	Very confident	3721	21.2%
9999	Missing	1826	10.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB07CG
Type: Numeric
Variable label: 7.g. Confident: Explaining when a quadratic equation has one, two or no solutions.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.81
Max: 4.00
Std. Dev.: 0.91
Skew: -0.30

Value	Label	Freq.	Percent
1	Not at all confident	1348	7.7%
2	Not very confident	4211	24.0%
3	Confident	6152	35.0%
4	Very confident	3983	22.7%
9999	Missing	1860	10.6%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB07CH
Type: Numeric
Variable label: 7.h. Confident: Checking if an equation like $2x^2+3x+1$ has any real solution.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.65
Max: 4.00
Std. Dev.: 0.95
Skew: -0.15

Value	Label	Freq.	Percent
1	Not at all confident	2026	11.5%
2	Not very confident	4648	26.5%
3	Confident	5544	31.6%
4	Very confident	3231	18.4%
9999	Missing	2105	12.0%

Percentiles:					
	10%	25%	50%	75%	90%
	1	2	3	3	4

Name:	SQB07CI		
Type:	Numeric		
Variable label:	7.i. Confident: Calculating the highest point of a ball that is thrown diagonally into the air.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.20		
Max:	4.00		
Std. Dev.:	0.96		
Skew:	0.30		

Value	Label	Freq.	Percent
1	Not at all confident	4063	23.1%
2	Not very confident	5288	30.1%
3	Confident	3966	22.6%
4	Very confident	1540	8.8%
9999	Missing	2697	15.4%

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	2	2	4

Name:	SQB07CJ		
Type:	Numeric		
Variable label:	7.j. Confident: Calculating the distance a car has travelled after a certain time of acceleration.		
Unique values:	5		
Missing values:	0		
Min:	1.00		
Mean:	2.40		
Max:	4.00		
Std. Dev.:	0.96		
Skew:	0.05		

Value	Label	Freq.	Percent
1	Not at all confident	3021	17.2%
2	Not very confident	4863	27.7%
3	Confident	4998	28.5%

4	Very confident	2029	11.6%
9999	Missing	2643	15.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB07CK
Type: Numeric
Variable label: 7.k. Confident: Finding the roots of a quadratic function.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.51
Max: 4.00
Std. Dev.: 0.98
Skew: -0.06

Value	Label	Freq.	Percent
1	Not at all confident	2788	15.9%
2	Not very confident	4523	25.8%
3	Confident	5278	30.1%
4	Very confident	2626	15.0%
9999	Missing	2339	13.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB08A
Type: Numeric
Variable label: 8.a. How often: Our mathematics teacher presented a summary of recently learned content.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.97
Max: 4.00
Std. Dev.: 0.89
Skew: -0.47

Value	Label	Freq.	Percent
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1	Never or almost never	985	5.6%
2	Occasionally	3611	20.6%
3	Frequently	6347	36.2%
4	Always	5124	29.2%
9999	Missing	1487	8.5%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB08B
Type: Numeric
Variable label: 8.b. How often: Our mathematics teacher set goals at the beginning of instruction.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.08
Max: 4.00
Std. Dev.: 0.94
Skew: -0.72

Value	Label	Freq.	Percent
1	Never or almost never	1242	7.1%
2	Occasionally	2823	16.1%
3	Frequently	5360	30.5%
4	Always	6636	37.8%
9999	Missing	1493	8.5%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB08C
Type: Numeric
Variable label: 8.c. How often: Our mathematics teacher explained what he/she expected us to learn.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.22

Max: 4.00
Std. Dev.: 0.84
Skew: -0.84

Value	Label	Freq.	Percent
1	Never or almost never	649	3.7%
2	Occasionally	2300	13.1%
3	Frequently	5989	34.1%
4	Always	7070	40.3%
9999	Missing	1546	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB08D

Type: Numeric

Variable label: 8.d. How often: Our mathematics teacher explained how new and old topics are related.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.15

Max: 4.00

Std. Dev.: 0.87

Skew: -0.79

Value	Label	Freq.	Percent
1	Never or almost never	856	4.9%
2	Occasionally	2428	13.8%
3	Frequently	6148	35.0%
4	Always	6594	37.6%
9999	Missing	1528	8.7%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB08E

Type: Numeric

Variable label: 8.e. How often: Our mathematics teacher presented tasks for which there is no obvious solution.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.40
 Max: 4.00
 Std. Dev.: 1.07
 Skew: 0.08

Value	Label	Freq.	Percent
1	Never or almost never	4164	23.7%
2	Occasionally	4237	24.1%
3	Frequently	4561	26.0%
4	Always	3010	17.1%
9999	Missing	1582	9.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: SQB08F

Type: Numeric

Variable label: 8.f. How often: Our mathematics teacher presented tasks that required us to apply what we had learned to new contexts.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.09
 Max: 4.00
 Std. Dev.: 0.84
 Skew: -0.66

Value	Label	Freq.	Percent
1	Never or almost never	779	4.4%
2	Occasionally	2682	15.3%
3	Frequently	6840	39.0%
4	Always	5708	32.5%
9999	Missing	1545	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB08G
Type: Numeric
Variable label: 8.g. How often: Our mathematics teacher gave tasks that required us to think critically.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.73
Max: 4.00
Std. Dev.: 0.99
Skew: -0.33

Value	Label	Freq.	Percent
1	Never or almost never	2327	13.3%
2	Occasionally	3651	20.8%
3	Frequently	6047	34.4%
4	Always	3940	22.4%
9999	Missing	1589	9.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB08H
Type: Numeric
Variable label: 8.h. How often: Our mathematics teacher asked us to decide on our own procedures for solving complex tasks.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.74
Max: 4.00
Std. Dev.: 0.96
Skew: -0.29

Value	Label	Freq.	Percent
1	Never or almost never	1967	11.2%
2	Occasionally	4120	23.5%
3	Frequently	6034	34.4%
4	Always	3881	22.1%
9999	Missing	1552	8.8%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB08I
Type: Numeric
Variable label: 8.i. How often: Our mathematics teacher gave us opportunities to explain our ideas.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.16
Max: 4.00
Std. Dev.: 0.90
Skew: -0.81

Value	Label	Freq.	Percent
1	Never or almost never	952	5.4%
2	Occasionally	2528	14.4%
3	Frequently	5605	31.9%
4	Always	6925	39.4%
9999	Missing	1544	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB08J
Type: Numeric
Variable label: 8.j. How often: Our mathematics teacher encouraged us to question and critique arguments made by other students.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.68
Max: 4.00
Std. Dev.: 1.06
Skew: -0.26

Value	Label	Freq.	Percent
1	Never or almost never	2876	16.4%
2	Occasionally	3611	20.6%
3	Frequently	5205	29.7%
4	Always	4305	24.5%
9999	Missing	1557	8.9%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB08K
Type: Numeric
Variable label: 8.k. How often: Our mathematics teacher required us to engage in discussions among ourselves.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.52
Max: 4.00
Std. Dev.: 1.12
Skew: -0.05

Value	Label	Freq.	Percent
1	Never or almost never	4083	23.3%
2	Occasionally	3575	20.4%
3	Frequently	4358	24.8%
4	Always	3995	22.8%
9999	Missing	1543	8.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	3	3	4

Name: SQB09A
Type: Numeric
Variable label: 9.a. How frequently did math teacher: Explained why a mathematical procedure works.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.97
Max: 4.00
Std. Dev.: 0.94
Skew: -0.54

Value	Label	Freq.	Percent
1	Never or almost never	1319	7.5%
2	Occasionally	3350	19.1%
3	Frequently	5905	33.6%

4	Always	5479	31.2%
9999	Missing	1501	8.6%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB09B
Type: Numeric
Variable label: 9.b. How frequently did math teacher: Illustrated why a mathematical procedure works by using concrete examples or graphics.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.00
Max: 4.00
Std. Dev.: 0.93
Skew: -0.57

Value	Label	Freq.	Percent
1	Never or almost never	1234	7.0%
2	Occasionally	3221	18.3%
3	Frequently	5939	33.8%
4	Always	5638	32.1%
9999	Missing	1522	8.7%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB09C
Type: Numeric
Variable label: 9.c. How frequently did math teacher: Asked questions that helped us understand why a procedure works.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.03
Max: 4.00
Std. Dev.: 0.91
Skew: -0.64

Value	Label	Freq.	Percent
1	Never or almost never	1159	6.6%
2	Occasionally	2914	16.6%
3	Frequently	6220	35.4%
4	Always	5749	32.8%
9999	Missing	1512	8.6%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB09D
Type: Numeric
Variable label: 9.d. How frequently did math teacher: Compared different ways of solving problems.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.23
Max: 4.00
Std. Dev.: 0.83
Skew: -0.85

Value	Label	Freq.	Percent
1	Never or almost never	617	3.5%
2	Occasionally	2296	13.1%
3	Frequently	5913	33.7%
4	Always	7227	41.2%
9999	Missing	1501	8.6%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB10A
Type: Numeric
Variable label: 10.a. Our mathematics teacher adapted the lessons to my class's needs and knowledge.
Unique values: 5
Missing values: 0
Min: 1.00

Mean: 3.08
Max: 4.00
Std. Dev.: 0.77
Skew: -0.73

Value	Label	Freq.	Percent
1	Strongly disagree	720	4.1%
2	Disagree	2033	11.6%
3	Agree	8445	48.1%
4	Strongly agree	4815	27.4%
9999	Missing	1541	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB10B

Type: Numeric

Variable label: 10.b. Our mathematics teacher changed the way of explanation (e.g. using different representations) when a student had difficulties understanding a topic or task.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.10

Max: 4.00

Std. Dev.: 0.81

Skew: -0.72

Value	Label	Freq.	Percent
1	Strongly disagree	758	4.3%
2	Disagree	2213	12.6%
3	Agree	7753	44.2%
4	Strongly agree	5291	30.1%
9999	Missing	1539	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB10C

Type: Numeric

Variable label: 10.c. Our mathematics teacher changed the structure of the lesson that most

students found difficult to understand.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.85
Max: 4.00
Std. Dev.: 0.85
Skew: -0.42

Value	Label	Freq.	Percent
1	Strongly disagree	1174	6.7%
2	Disagree	3667	20.9%
3	Agree	7505	42.8%
4	Strongly agree	3623	20.6%
9999	Missing	1585	9.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB10D
Type: Numeric
Variable label: 10.d. Our mathematics teacher gave different work to students of different ability levels.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.17
Max: 4.00
Std. Dev.: 1.01
Skew: 0.38

Value	Label	Freq.	Percent
1	Strongly disagree	5133	29.2%
2	Disagree	5068	28.9%
3	Agree	3808	21.7%
4	Strongly agree	1985	11.3%
9999	Missing	1560	8.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: SQB10E
Type: Numeric
Variable label: 10.e. Our mathematics teacher asked questions to check if we understood what he/she had taught.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.30
Max: 4.00
Std. Dev.: 0.73
Skew: -0.96

Value	Label	Freq.	Percent
1	Strongly disagree	453	2.6%
2	Disagree	1287	7.3%
3	Agree	7302	41.6%
4	Strongly agree	6973	39.7%
9999	Missing	1539	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB11A
Type: Numeric
Variable label: 11.a. When the lessons began, our mathematics teacher had to wait quite a long time for us to quieten down.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.14
Max: 4.00
Std. Dev.: 0.90
Skew: 0.39

Value	Label	Freq.	Percent
1	Strongly disagree	4207	24.0%
2	Disagree	6686	38.1%
3	Agree	3873	22.1%
4	Strongly agree	1285	7.3%
9999	Missing	1503	8.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name:	SQB11B			
Type:	Numeric			
Variable label:	11.b. We lost quite a lot of time because of students interrupting the lessons.			
Unique values:	5			
Missing values:	0			
Min:	1.00			
Mean:	2.09			
Max:	4.00			
Std. Dev.:	0.91			
Skew:	0.44			

Value	Label	Freq.	Percent	
1	Strongly disagree	4737	27.0%	
2	Disagree	6350	36.2%	
3	Agree	3703	21.1%	
4	Strongly agree	1260	7.2%	
9999	Missing	1504	8.6%	

Percentiles:				
10%	25%	50%	75%	90%
1	1	2	2	3

Name:	SQB11C			
Type:	Numeric			
Variable label:	11.c. There was much disruptive noise in this classroom.			
Unique values:	5			
Missing values:	0			
Min:	1.00			
Mean:	2.13			
Max:	4.00			
Std. Dev.:	0.91			
Skew:	0.39			

Value	Label	Freq.	Percent	
1	Strongly disagree	4347	24.8%	
2	Disagree	6488	37.0%	
3	Agree	3871	22.1%	
4	Strongly agree	1297	7.4%	
9999	Missing	1551	8.8%	

Percentiles:				
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10%	25%	50%	75%	90%
1	1	2	2	3

Name: SQB11D
Type: Numeric
Variable label: 11.d. In our teacher's class, we were aware of what was allowed and what was not allowed.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.30
Max: 4.00
Std. Dev.: 0.75
Skew: -1.02

Value	Label	Freq.	Percent
1	Strongly disagree	545	3.1%
2	Disagree	1251	7.1%
3	Agree	7143	40.7%
4	Strongly agree	7088	40.4%
9999	Missing	1527	8.7%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB11E
Type: Numeric
Variable label: 11.e. In our teacher's class, we knew why certain rules were important.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.25
Max: 4.00
Std. Dev.: 0.73
Skew: -0.87

Value	Label	Freq.	Percent
1	Strongly disagree	459	2.6%
2	Disagree	1374	7.8%
3	Agree	7893	45.0%
4	Strongly agree	6281	35.8%
9999	Missing	1547	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB11F
Type: Numeric
Variable label: 11.f. Our teacher managed to stop disruptions quickly.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.15
Max: 4.00
Std. Dev.: 0.82
Skew: -0.84

Value	Label	Freq.	Percent
1	Strongly disagree	788	4.5%
2	Disagree	1914	10.9%
3	Agree	7333	41.8%
4	Strongly agree	5970	34.0%
9999	Missing	1549	8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB11G
Type: Numeric
Variable label: 11.g. Our teacher reacted to disruptions in such a way that the students stopped disturbing learning.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.07
Max: 4.00
Std. Dev.: 0.83
Skew: -0.75

Value	Label	Freq.	Percent
1	Strongly disagree	942	5.4%
2	Disagree	2183	12.4%

3	Agree	7660	43.6%
4	Strongly agree	5200	29.6%
9999	Missing	1569	8.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB11H
Type: Numeric
Variable label: 11.h. In our teacher's class, transitions from one phase of the lesson to the other (e.g., from class discussions to individual work) took a lot of time.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.23
Max: 4.00
Std. Dev.: 0.84
Skew: 0.31

Value	Label	Freq.	Percent
1	Strongly disagree	3050	17.4%
2	Disagree	7433	42.3%
3	Agree	4256	24.2%
4	Strongly agree	1233	7.0%
9999	Missing	1582	9.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	3

Name: SQB11I
Type: Numeric
Variable label: 11.i. Our teacher was immediately aware of students doing something else.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.01
Max: 4.00
Std. Dev.: 0.83
Skew: -0.60

Value	Label	Freq.	Percent
1	Strongly disagree	879	5.0%
2	Disagree	2772	15.8%
3	Agree	7731	44.0%
4	Strongly agree	4632	26.4%
9999	Missing	1540	8.8%

Percentiles:					
	10%	25%	50%	75%	90%
	2	3	3	3	4

Name: SQB11J
Type: Numeric
Variable label: 11.j. Our teacher was aware of what was happening in the classroom, even if he or she was busy with an individual student.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.05
Max: 4.00
Std. Dev.: 0.81
Skew: -0.66

Value	Label	Freq.	Percent
1	Strongly disagree	821	4.7%
2	Disagree	2442	13.9%
3	Agree	7884	44.9%
4	Strongly agree	4855	27.7%
9999	Missing	1552	8.8%

Percentiles:					
	10%	25%	50%	75%	90%
	2	3	3	3	4

Name: SQB12A
Type: Numeric
Variable label: 12.a. Our mathematics teacher gave extra help when we needed it.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.17

Max: 4.00
Std. Dev.: 0.79
Skew: -0.85

Value	Label	Freq.	Percent
1	Strongly disagree	722	4.1%
2	Disagree	1739	9.9%
3	Agree	7698	43.9%
4	Strongly agree	5832	33.2%
9999	Missing	1563	8.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12B
Type: Numeric
Variable label: 12.b. Our mathematics teacher continued teaching until we understood.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.19
Max: 4.00
Std. Dev.: 0.77
Skew: -0.78

Value	Label	Freq.	Percent
1	Strongly disagree	541	3.1%
2	Disagree	1847	10.5%
3	Agree	7668	43.7%
4	Strongly agree	5926	33.8%
9999	Missing	1572	9.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12C
Type: Numeric
Variable label: 12.c. Our mathematics teacher helped us with our learning.
Unique values: 5
Missing values: 0

Min: 1.00
 Mean: 3.30
 Max: 4.00
 Std. Dev.: 0.70
 Skew: -0.92

Value	Label	Freq.	Percent
1	Strongly disagree	399	2.3%
2	Disagree	1021	5.8%
3	Agree	7985	45.5%
4	Strongly agree	6562	37.4%
9999	Missing	1587	9.0%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	4

Name: SQB12D
Type: Numeric
Variable label: 12.d. Our mathematics teacher made me feel confident in my ability to do well in the course.
Unique values: 5
Missing values: 0
 Min: 1.00
 Mean: 3.10
 Max: 4.00
 Std. Dev.: 0.82
 Skew: -0.73

Value	Label	Freq.	Percent
1	Strongly disagree	810	4.6%
2	Disagree	2273	12.9%
3	Agree	7382	42.1%
4	Strongly agree	5515	31.4%
9999	Missing	1574	9.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12E
Type: Numeric

Variable label: 12.e. Our mathematics teacher listened to my view on how to do things.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.03
 Max: 4.00
 Std. Dev.: 0.83
 Skew: -0.63

Value	Label	Freq.	Percent
1	Strongly disagree	857	4.9%
2	Disagree	2618	14.9%
3	Agree	7632	43.5%
4	Strongly agree	4856	27.7%
9999	Missing	1591	9.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12F
 Type: Numeric
 Variable label: 12.f. I felt that our mathematics teacher understood me.
 Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.02
 Max: 4.00
 Std. Dev.: 0.85
 Skew: -0.66

Value	Label	Freq.	Percent
1	Strongly disagree	1014	5.8%
2	Disagree	2586	14.7%
3	Agree	7393	42.1%
4	Strongly agree	4960	28.3%
9999	Missing	1601	9.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12G
Type: Numeric
Variable label: 12.g. Our mathematics teacher made me feel confident in my ability to learn the material.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.06
Max: 4.00
Std. Dev.: 0.83
Skew: -0.70

Value	Label	Freq.	Percent
1	Strongly disagree	874	5.0%
2	Disagree	2362	13.5%
3	Agree	7614	43.4%
4	Strongly agree	5107	29.1%
9999	Missing	1597	9.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12H
Type: Numeric
Variable label: 12.h. Our mathematics teacher provided me with different alternatives (e.g. learning materials or tasks).
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.82
Max: 4.00
Std. Dev.: 0.93
Skew: -0.42

Value	Label	Freq.	Percent
1	Strongly disagree	1676	9.5%
2	Disagree	3568	20.3%
3	Agree	6648	37.9%
4	Strongly agree	4059	23.1%
9999	Missing	1603	9.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB12I
Type: Numeric
Variable label: 12.i. Our mathematics teacher encouraged me to find the best way to proceed by myself.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.94
Max: 4.00
Std. Dev.: 0.87
Skew: -0.55

Value	Label	Freq.	Percent
1	Strongly disagree	1153	6.6%
2	Disagree	3028	17.2%
3	Agree	7332	41.8%
4	Strongly agree	4431	25.2%
9999	Missing	1610	9.2%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB12J
Type: Numeric
Variable label: 12.j. Our mathematics teacher let me work on my own.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.08
Max: 4.00
Std. Dev.: 0.80
Skew: -0.72

Value	Label	Freq.	Percent
1	Strongly disagree	795	4.5%
2	Disagree	2153	12.3%
3	Agree	8072	46.0%
4	Strongly agree	4942	28.2%
9999	Missing	1592	9.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB12K
Type: Numeric
Variable label: 12.k. Our mathematics teacher appreciated it when different solutions came up for discussion.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.09
Max: 4.00
Std. Dev.: 0.81
Skew: -0.74

Value	Label	Freq.	Percent
1	Strongly disagree	792	4.5%
2	Disagree	2133	12.2%
3	Agree	7810	44.5%
4	Strongly agree	5208	29.7%
9999	Missing	1611	9.2%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB13A
Type: Numeric
Variable label: 13.a. I got along well with my mathematics teacher.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.25
Max: 4.00
Std. Dev.: 0.76
Skew: -1.00

Value	Label	Freq.	Percent
1	Strongly disagree	640	3.6%
2	Disagree	1239	7.1%
3	Agree	7578	43.2%
4	Strongly agree	6552	37.3%

9999 Missing 1545 8.8%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: **SQB13B**
Type: Numeric
Variable label: 13.b. My mathematics teacher was interested in my well-being.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.99
Max: 4.00
Std. Dev.: 0.84
Skew: -0.56

Value	Label	Freq.	Percent
1	Strongly disagree	911	5.2%
2	Disagree	3000	17.1%
3	Agree	7342	41.8%
4	Strongly agree	4692	26.7%
9999	Missing	1609	9.2%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: **SQB13C**
Type: Numeric
Variable label: 13.c. My mathematics teacher really listened to what I had to say.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.14
Max: 4.00
Std. Dev.: 0.77
Skew: -0.77

Value	Label	Freq.	Percent
1	Strongly disagree	648	3.7%
2	Disagree	1864	10.6%

3	Agree	8062	45.9%
4	Strongly agree	5387	30.7%
9999	Missing	1593	9.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB13D

Type: Numeric

Variable label: 13.d. My mathematics teacher treated me fairly.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.27

Max: 4.00

Std. Dev.: 0.74

Skew: -1.01

Value	Label	Freq.	Percent
1	Strongly disagree	581	3.3%
2	Disagree	1053	6.0%
3	Agree	7879	44.9%
4	Strongly agree	6466	36.8%
9999	Missing	1575	9.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB13E

Type: Numeric

Variable label: 13.e. My mathematics teacher made me feel she/he really cared about me.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.98

Max: 4.00

Std. Dev.: 0.85

Skew: -0.54

Value	Label	Freq.	Percent
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1	Strongly disagree	960	5.5%
2	Disagree	3089	17.6%
3	Agree	7238	41.2%
4	Strongly agree	4624	26.3%
9999	Missing	1643	9.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB13F
Type: Numeric
Variable label: 13.f. I felt like an outsider (or left out of things) in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.71
Max: 4.00
Std. Dev.: 0.89
Skew: 1.08

Value	Label	Freq.	Percent
1	Strongly disagree	8340	47.5%
2	Disagree	4756	27.1%
3	Agree	1926	11.0%
4	Strongly agree	924	5.3%
9999	Missing	1608	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQB13G
Type: Numeric
Variable label: 13.g. I felt like I belonged in my mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.16
Max: 4.00
Std. Dev.: 0.78

Skew:	-0.83		
Value	Label	Freq.	Percent
1	Strongly disagree	696	4.0%
2	Disagree	1738	9.9%
3	Agree	7905	45.0%
4	Strongly agree	5608	31.9%
9999	Missing	1607	9.2%

Percentiles:				
10%	25%	50%	75%	90%
2	3	3	3	4

Name:	SQB13H
Type:	Numeric
Variable label:	13.h. I felt awkward and out of place in my mathematics class.
Unique values:	5
Missing values:	0
Min:	1.00
Mean:	1.72
Max:	4.00
Std. Dev.:	0.87
Skew:	1.04

Value	Label	Freq.	Percent
1	Strongly disagree	8060	45.9%
2	Disagree	5075	28.9%
3	Agree	1983	11.3%
4	Strongly agree	841	4.8%
9999	Missing	1595	9.1%

Percentiles:				
10%	25%	50%	75%	90%
1	1	1	1	3

Name:	SQB13I
Type:	Numeric
Variable label:	13.i. I felt lonely in my mathematics class.
Unique values:	5
Missing values:	0
Min:	1.00
Mean:	1.64

Max: 4.00
Std. Dev.: 0.86
Skew: 1.26

Value	Label	Freq.	Percent
1	Strongly disagree	9040	51.5%
2	Disagree	4509	25.7%
3	Agree	1585	9.0%
4	Strongly agree	851	4.8%
9999	Missing	1569	8.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: SQB14A

Type: Numeric

Variable label: 14.a. How often in lessons on quadratic equations: Our mathematics teacher wanted us to work hard.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.30

Max: 4.00

Std. Dev.: 0.82

Skew: -0.98

Value	Label	Freq.	Percent
1	Never or almost never	562	3.2%
2	Occasionally	2011	11.5%
3	Frequently	5528	31.5%
4	Always	7894	45.0%
9999	Missing	1559	8.9%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB14B

Type: Numeric

Variable label: 14.b. How often in lessons on quadratic equations: Our mathematics teacher told us that we can do better.

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 3.15
 Max: 4.00
 Std. Dev.: 0.91
 Skew: -0.83

Value	Label	Freq.	Percent
1	Never or almost never	1065	6.1%
2	Occasionally	2364	13.5%
3	Frequently	5666	32.3%
4	Always	6884	39.2%
9999	Missing	1575	9.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB14C

Type: Numeric

Variable label: 14.c. How often in lessons on quadratic equations: Our mathematics teacher did not like it when we delivered careless work.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 2.63

Max: 4.00

Std. Dev.: 1.12

Skew: -0.18

Value	Label	Freq.	Percent
1	Never or almost never	3586	20.4%
2	Occasionally	3365	19.2%
3	Frequently	4425	25.2%
4	Always	4566	26.0%
9999	Missing	1612	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB14D
Type: Numeric
Variable label: 14.d. How often in lessons on quadratic equations: We had to learn a lot.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.09
Max: 4.00
Std. Dev.: 0.84
Skew: -0.62

Value	Label	Freq.	Percent
1	Never or almost never	719	4.1%
2	Occasionally	2853	16.3%
3	Frequently	6668	38.0%
4	Always	5730	32.6%
9999	Missing	1584	9.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB15A
Type: Numeric
Variable label: 15.a. Yes/no: Our mathematics teacher had individual students answer questions in front of the class.
Unique values: 3
Missing values: 0
Min: 1.00
Mean: 1.22
Max: 2.00
Std. Dev.: 0.42
Skew: 1.34

Value	Label	Freq.	Percent
1	Yes	12435	70.8%
2	No	3548	20.2%
9999	Missing	1571	8.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name:	SQB15B				
Type:	Numeric				
Variable label:	15.b. Yes/no: Our mathematics teacher let students evaluate their own progress.				
Unique values:	3				
Missing values:	0				
Min:	1.00				
Mean:	1.45				
Max:	2.00				
Std. Dev.:	0.50				
Skew:	0.22				
Value	Label	Freq.	Percent		
1	Yes	8829	50.3%		
2	No	7111	40.5%		
9999	Missing	1614	9.2%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	2

Name:	SQB15C				
Type:	Numeric				
Variable label:	15.c. Yes/no: Our mathematics teacher observed students when working on particular tasks and provided immediate feedback.				
Unique values:	3				
Missing values:	0				
Min:	1.00				
Mean:	1.22				
Max:	2.00				
Std. Dev.:	0.42				
Skew:	1.32				
Value	Label	Freq.	Percent		
1	Yes	12330	70.2%		
2	No	3562	20.3%		
9999	Missing	1662	9.5%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	2

Name: SQB16A
Type: Numeric
Variable label: 16.a. How often did math teacher during quadratic equations: Tell you what was expected of you when you got a test, quiz or assignment.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.27
Max: 4.00
Std. Dev.: 0.95
Skew: 0.23

Value	Label	Freq.	Percent
1	Never or hardly ever	3787	21.6%
2	Some lessons	5833	33.2%
3	Most lessons	4486	25.6%
4	Every lesson	1831	10.4%
9999	Missing	1617	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB16B
Type: Numeric
Variable label: 16.b. How often did math teacher during quadratic equations: Tell you about how well you were doing in your mathematics class.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.27
Max: 4.00
Std. Dev.: 0.97
Skew: 0.22

Value	Label	Freq.	Percent
1	Never or hardly ever	3963	22.6%
2	Some lessons	5525	31.5%
3	Most lessons	4549	25.9%
4	Every lesson	1885	10.7%
9999	Missing	1632	9.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: SQB16C
Type: Numeric
Variable label: 16.c. How often did math teacher during quadratic equations: Give you feedback on your strengths and weaknesses.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.23
Max: 4.00
Std. Dev.: 1.01
Skew: 0.27

Value	Label	Freq.	Percent
1	Never or hardly ever	4703	26.8%
2	Some lessons	4889	27.9%
3	Most lessons	4343	24.7%
4	Every lesson	1988	11.3%
9999	Missing	1631	9.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: SQB16D
Type: Numeric
Variable label: 16.d. How often did math teacher during quadratic equations: Tell you what you needed to do to become better.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.57
Max: 4.00
Std. Dev.: 1.01
Skew: -0.09

Value	Label	Freq.	Percent
1	Never or hardly ever	2858	16.3%
2	Some lessons	4543	25.9%
3	Most lessons	5167	29.4%
4	Every lesson	3371	19.2%
9999	Missing	1615	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB17A

Type: Numeric

Variable label: 17.a. Teacher during quadratic equations: I had the feeling that our mathematics teacher was interested in the topic of quadratic equations.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.28

Max: 4.00

Std. Dev.: 0.71

Skew: -0.91

Value	Label	Freq.	Percent
1	Strongly disagree	419	2.4%
2	Disagree	1153	6.6%
3	Agree	7864	44.8%
4	Strongly agree	6524	37.2%
9999	Missing	1594	9.1%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	4

Name: SQB17B

Type: Numeric

Variable label: 17.b. Teacher during quadratic equations: Our mathematics teacher was totally involved in the topic of quadratic equations.

Unique values: 5

Missing values: 0

Min: 1.00

Mean: 3.25

Max: 4.00

Std. Dev.: 0.74

Skew: -0.76

Value	Label	Freq.	Percent
1	Strongly disagree	354	2.0%
2	Disagree	1784	10.2%
3	Agree	7394	42.1%

4	Strongly agree	6423	36.6%
9999	Missing	1599	9.1%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB17C
Type: Numeric
Variable label: 17.c. Teacher during quadratic equations: It was clear to me that our mathematics teacher liked teaching us the topic of quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.18
Max: 4.00
Std. Dev.: 0.76
Skew: -0.69

Value	Label	Freq.	Percent
1	Strongly disagree	442	2.5%
2	Disagree	2079	11.8%
3	Agree	7612	43.4%
4	Strongly agree	5792	33.0%
9999	Missing	1629	9.3%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB17D
Type: Numeric
Variable label: 17.d. Teacher during quadratic equations: I could see that our mathematics teacher enjoyed giving us lessons on the topic of quadratic equations.
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.16
Max: 4.00
Std. Dev.: 0.75
Skew: -0.68

Value	Label	Freq.	Percent
1	Strongly disagree	463	2.6%
2	Disagree	2072	11.8%
3	Agree	7839	44.7%
4	Strongly agree	5538	31.5%
9999	Missing	1642	9.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB17E
Type: Numeric
Variable label: 17.e. Teacher during quadratic equations: The enthusiasm of our mathematics teacher inspired me.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.88
Max: 4.00
Std. Dev.: 0.91
Skew: -0.46

Value	Label	Freq.	Percent
1	Strongly disagree	1359	7.7%
2	Disagree	3502	19.9%
3	Agree	6673	38.0%
4	Strongly agree	4370	24.9%
9999	Missing	1650	9.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB17F
Type: Numeric
Variable label: 17.f. Teacher during quadratic equations: Our mathematics teacher expressed that the topic of quadratic equations is important to him/her.

Unique values: 5
Missing values: 0
Min: 1.00

Mean: 2.92
Max: 4.00
Std. Dev.: 0.87
Skew: -0.48

Value	Label	Freq.	Percent
1	Strongly disagree	1114	6.3%
2	Disagree	3387	19.3%
3	Agree	7024	40.0%
4	Strongly agree	4385	25.0%
9999	Missing	1644	9.4%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: SQB17G
Type: Numeric
Variable label: 17.g. Teacher during quadratic equations: It was clear that our mathematics teacher likes to deal with the topic of quadratic equations.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.06
Max: 4.00
Std. Dev.: 0.79
Skew: -0.60

Value	Label	Freq.	Percent
1	Strongly disagree	645	3.7%
2	Disagree	2573	14.7%
3	Agree	7844	44.7%
4	Strongly agree	4846	27.6%
9999	Missing	1646	9.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB17H
Type: Numeric
Variable label: 17.h. Teacher during quadratic equations: Our mathematics teacher showed

enjoyment in teaching the topic of quadratic equations.

Unique values: 5
Missing values: 0
Min: 1.00
Mean: 3.10
Max: 4.00
Std. Dev.: 0.79
Skew: -0.67

Value	Label	Freq.	Percent
1	Strongly disagree	654	3.7%
2	Disagree	2304	13.1%
3	Agree	7813	44.5%
4	Strongly agree	5135	29.3%
9999	Missing	1648	9.4%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: SQB18A

Type: Numeric

Variable label: 18.a. Compare videotaped lessons to normal lessons: Our mathematics teacher provided a clear structure (e.g., by presenting a summary of recently learned content).

Unique values: 6

Missing values: 0

values:

Min: 1.00

Mean: 3.51

Max: 5.00

Std. Dev.: 0.95

Skew: -0.09

Value	Label	Freq.	Percent
1	Much less	418	2.4%
2	A bit less	1109	6.3%
3	Exactly the same	7259	41.4%
4	A bit more	4245	24.2%
5	Much more	2868	16.3%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	5

Name: SQB18B
Type: Numeric
Variable label: 18.b. Compare videotaped lessons to normal lessons: Our mathematics teacher made us think hard about the content (e.g.,by letting us decide on our own ways of solving complex tasks).
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.42
Max: 5.00
Std. Dev.: 0.93
Skew: 0.02

Value	Label	Freq.	Percent
1	Much less	393	2.2%
2	A bit less	1360	7.7%
3	Exactly the same	7731	44.0%
4	A bit more	4010	22.8%
5	Much more	2393	13.6%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	5

Name: SQB18C
Type: Numeric
Variable label: 18.c. Compare videotaped lessons to normal lessons: Our mathematics teacher adapted the instruction to our needs (e.g.,by giving different tasks to different students).
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.19
Max: 5.00
Std. Dev.: 1.06
Skew: -0.14

Value	Label	Freq.	Percent
1	Much less	1314	7.5%
2	A bit less	1549	8.8%
3	Exactly the same	7843	44.7%
4	A bit more	3053	17.4%
5	Much more	2095	11.9%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	5

Name: SQB18D

Type: Numeric

Variable label: 18.d. Compare videotaped lessons to normal lessons: Our maths teacher supported us socioemotionally (e.g., through treating us fairly/respectfully/with care).

Unique values: 6

Missing values: 0

Min: 1.00

Mean: 3.42

Max: 5.00

Std. Dev.: 0.96

Skew: 0.07

Value	Label	Freq.	Percent
1	Much less	493	2.8%
2	A bit less	1078	6.1%
3	Exactly the same	8377	47.7%
4	A bit more	3082	17.6%
5	Much more	2828	16.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	5

Name: SQB18E

Type: Numeric

Variable label: 18.e. Compare videotaped lessons to normal lessons: Our maths teacher managed the

class in a way that no time was wasted (e.g., by starting the lesson on time).

Unique values: 6
 Missing values: 0
 Min: 1.00
 Mean: 3.50
 Max: 5.00
 Std. Dev.: 0.97
 Skew: -0.03

Value	Label	Freq.	Percent
1	Much less	437	2.5%
2	A bit less	1054	6.0%
3	Exactly the same	7584	43.2%
4	A bit more	3647	20.8%
5	Much more	3119	17.8%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	5

Name: SQB18F
Type: Numeric
Variable label: 18.f. Compare videotaped lessons to normal lessons: Our maths teacher was nervous.

Unique values: 6
 Missing values: 0
 Min: 1.00
 Mean: 2.70
 Max: 5.00
 Std. Dev.: 1.24
 Skew: -0.00

Value	Label	Freq.	Percent
1	Much less	4039	23.0%
2	A bit less	2023	11.5%
3	Exactly the same	5472	31.2%
4	A bit more	3153	18.0%
5	Much more	1104	6.3%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	3	3	4

Name: SQB18G
Type: Numeric
Variable label: 18.g. Compare videotaped lessons to normal lessons: Our maths teacher was enthusiastic.
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.49
Max: 5.00
Std. Dev.: 0.99
Skew: -0.13

Value	Label	Freq.	Percent
1	Much less	539	3.1%
2	A bit less	1122	6.4%
3	Exactly the same	7182	40.9%
4	A bit more	3919	22.3%
5	Much more	2996	17.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	5

Name: SQB18H
Type: Numeric
Variable label: 18.h. Compare videotaped lessons to normal lessons: I felt nervous.
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.81
Max: 5.00
Std. Dev.: 1.22
Skew: -0.05

Value	Label	Freq.	Percent
1	Much less	3452	19.7%
2	A bit less	1870	10.7%
3	Exactly the same	6182	35.2%
4	A bit more	2915	16.6%
5	Much more	1403	8.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB18I
Type: Numeric
Variable label: 18.i. Compare videotaped lessons to normal lessons: I was interested.
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.39
Max: 5.00
Std. Dev.: 1.03
Skew: -0.16

Value	Label	Freq.	Percent
1	Much less	821	4.7%
2	A bit less	1253	7.1%
3	Exactly the same	7429	42.3%
4	A bit more	3555	20.3%
5	Much more	2798	15.9%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	5

Name: SQB18J
Type: Numeric
Variable label: 18.j. Compare videotaped lessons to normal lessons: I concentrated on the lessons.
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.52
Max: 5.00
Std. Dev.: 0.97
Skew: -0.08

Value	Label	Freq.	Percent
1	Much less	447	2.5%

2	A bit less	1006	5.7%
3	Exactly the same	7388	42.1%
4	A bit more	3872	22.1%
5	Much more	3158	18.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	5

Name: SQB18K
Type: Numeric
Variable label: 18.k. Compare videotaped lessons to normal lessons: I interacted with our maths teacher.
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.23
Max: 5.00
Std. Dev.: 1.07
Skew: -0.06

Value	Label	Freq.	Percent
1	Much less	1119	6.4%
2	A bit less	1842	10.5%
3	Exactly the same	7599	43.3%
4	A bit more	2896	16.5%
5	Much more	2408	13.7%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	5

Name: SQB19
Type: Numeric
Variable label: 19. Post-test: How hard was this test compared to most other tests you have taken this year in school?
Unique values: 5
Missing values: 0
Min: 1.00

Mean: 2.00
 Max: 4.00
 Std. Dev.: 0.96
 Skew: 0.60

Value	Label	Freq.	Percent
1	Easier than other tests.	5861	33.4%
2	About as hard as other tests.	5483	31.2%
3	Harder than other tests.	3098	17.6%
4	Much harder than other tests.	1390	7.9%
9999	Missing	1722	9.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SQB20
Type: Numeric
Variable label: 20. Post-test: How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?

Unique values: 5
 Missing values: 0
 Min: 1.00
 Mean: 2.00
 Max: 4.00
 Std. Dev.: 0.83
 Skew: 0.70

Value	Label	Freq.	Percent
1	Not as hard as on other tests.	4404	25.1%
2	About as hard as on other tests.	8084	46.1%
3	Harder than on other tests.	2302	13.1%
4	Much harder than on other tests.	1064	6.1%
9999	Missing	1700	9.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SQB21
Type: Numeric
Variable label: 21. Post-test: How important was it to you to do well on this test on quadratic equations?
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 2.75
Max: 4.00
Std. Dev.: 1.02
Skew: -0.28

Value	Label	Freq.	Percent
1	Not very important	2250	12.8%
2	Somewhat important	4010	22.8%
3	Important	5167	29.4%
4	Very important	4467	25.4%
9999	Missing	1660	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SQB22A
Type: Numeric
Variable label: 22. Did you concentrate while answering the questionnaire?
Unique values: 5
Missing values: 0
Min: 1.00
Mean: 1.62
Max: 4.00
Std. Dev.: 0.85
Skew: 1.27

Value	Label	Freq.	Percent
1	Yes	8945	51.0%
2	Mostly	4141	23.6%
3	Partly	1606	9.1%
4	No	722	4.1%
9999	Missing	2140	12.2%

Percentiles:

10%	25%	50%	75%	90%

1

1

1

1

3

Name: SQB_STARTTIME

Type: String

Variable label: SQB Start Time

Unique values: 510

Missing values: 3,334

Value	Label	Freq.	Percent
		3334	19.0%
10:00		382	2.2%
10:01		8	0.0%
10:02		2	0.0%
10:03		1	0.0%
All other values		13799	78.6%

Name: SQB_ENDTIME

Type: String

Variable label: SQB End Time

Unique values: 726

Missing values: 3,334

Value	Label	Freq.	Percent
		3334	19.0%
10:00		44	0.3%
10:01		16	0.1%
10:02		16	0.1%
10:03		21	0.1%
All other values		14104	80.3%

Name: MINUTES_SQB

Type: String

Variable label: Minutes taken to complete SQB

Unique values: 69

Missing values: 3,317

Value	Label	Freq.	Percent
		3317	18.9%
0		43	0.2%
1		7	0.0%
10		740	4.2%

11	416	2.4%
All other values	12470	71.0%

Name: SB_SELFCON
Type: Numeric
Variable label: Student self-concept
Unique values: 35
Missing values: 1,423
Min: 1.00
Mean: 2.71
Max: 4.00
Std. Dev.: 0.70
Skew: -0.10

Value	Label	Freq.	Percent
1		397	2.3%
1.166667		144	0.8%
1.2		4	0.0%
1.333333		139	0.8%
1.4		2	0.0%
All other values		16653	94.9%

Percentiles:

10%	25%	50%	75%	90%
2	2.166667	2.666667	2.666667	3.833333

Name: SB_SINT_CURR
Type: Numeric
Variable label: Student situational interest in math - current teacher
Unique values: 5
Missing values: 1,446
Min: 1.00
Mean: 2.51
Max: 4.00
Std. Dev.: 0.89
Skew: -0.03

Value	Label	Freq.	Percent
1		2203	12.5%
2		5679	32.4%
3		6048	34.5%
4		2178	12.4%
.		1446	8.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SB_LOSSINST
Type: Numeric
Variable label: Student loss in individual learning time during QE unit
Unique values: 5
Missing values: 1,455
Min: 1.00
Mean: 1.35
Max: 4.00
Std. Dev.: 0.65
Skew: 2.04

Value	Label	Freq.	Percent
1		11707	66.7%
2		3446	19.6%
3		648	3.7%
4		298	1.7%
.		1455	8.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SB_OUT_ASSIGNSELF
Type: Numeric
Variable label: Student out of school learning: self-controlled
Unique values: 64
Missing values: 1,773
Min: 0.00
Mean: 3.12
Max: 168.00
Std. Dev.: 4.62
Skew: 13.76

Value	Label	Freq.	Percent
0		1680	9.6%
.01		1	0.0%
.1		5	0.0%

.1666	1	0.0%
.2	5	0.0%
All other values	15861	90.4%

Percentiles:

10%	25%	50%	75%	90%
0	1	2	2	7

Name: SB_OUT_ASSIGNSUP
Type: Numeric
Variable label: Student out of school learning: supervised
Unique values: 58
Missing values: 1,902
Min: 0.00
Mean: 1.84
Max: 168.00
Std. Dev.: 4.38
Skew: 18.82

Value	Label	Freq.	Percent
0		5558	31.7%
.01		1	0.0%
.1		4	0.0%
.15		1	0.0%
.2		6	0.0%
All other values		11977	68.2%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	4

Name: SB_OUT_ADD
Type: Numeric
Variable label: Student out of school learning: additional
Unique values: 58
Missing values: 1,934
Min: 0.00
Mean: 1.69
Max: 168.00
Std. Dev.: 3.95
Skew: 20.64

Value	Label	Freq.	Percent
0		5757	32.8%
.05		1	0.0%
.1		3	0.0%
.17		1	0.0%
.2		2	0.0%
All other values		11788	67.2%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	4

Name: SB_OUT_OTHER
Type: Numeric
Variable label: Student out of school learning: other subjects
Unique values: 111
Missing values: 1,947
Min: 0.00
Mean: 7.29
Max: 200.00
Std. Dev.: 10.45
Skew: 5.96

Value	Label	Freq.	Percent
0		863	4.9%
.3		1	0.0%
.5		26	0.1%
.75		1	0.0%
.9		1	0.0%
All other values		14807	84.4%

Percentiles:

10%	25%	50%	75%	90%
1	2	4	4	16

Name: SB_OUT_TOTAL
Type: Numeric
Variable label: Student out of school learning: total
Unique values: 148
Missing values: 0
Min: 0.00

Mean: 5.96
 Max: 504.00
 Std. Dev.: 10.47
 Skew: 20.53

Value	Label	Freq.	Percent
0		2763	15.7%
.1		4	0.0%
.1666		1	0.0%
.2		4	0.0%
.25		1	0.0%
All other values		14780	84.2%

Percentiles:

10%	25%	50%	75%	90%
0	2	4	4	13

Name: SB_USECONT
Type: Numeric
Variable label: Student content related structure
Unique values: 14
Missing values: 1,440
Min: 1.00
Mean: 3.02
Max: 4.00
Std. Dev.: 0.57
Skew: -0.42

Value	Label	Freq.	Percent
1		178	1.0%
1.333333		71	0.4%
1.5		3	0.0%
1.666667		175	1.0%
2		574	3.3%
All other values		15330	87.3%

Percentiles:

10%	25%	50%	75%	90%
2.333333	2.666667	3	3	4

Name: SB_USECOGACT
Type: Numeric

Variable label: Student actual cognitive engagement in mathematics class
 Unique values: 14
 Missing values: 1,444
 Min: 1.00
 Mean: 2.81
 Max: 4.00
 Std. Dev.: 0.65
 Skew: -0.18

Value	Label	Freq.	Percent
1		282	1.6%
1.333333		225	1.3%
1.5		13	0.1%
1.666667		370	2.1%
2		1493	8.5%
All other values		12780	72.8%

Percentiles:

10%	25%	50%	75%	90%
2	2.333333	2.666667	2.666667	3.666667

Name: SB_USESELFD
 Type: Numeric
 Variable label: Student social-emotional support
 Unique values: 14
 Missing values: 1,455
 Min: 1.00
 Mean: 2.88
 Max: 4.00
 Std. Dev.: 0.66
 Skew: -0.32

Value	Label	Freq.	Percent
1		253	1.4%
1.333333		239	1.4%
1.5		20	0.1%
1.666667		450	2.6%
2		1247	7.1%
All other values		13453	76.6%

Percentiles:

10%	25%	50%	75%	90%
2	2.333333	3	3	3.666667

Name:	SB_USETOT			
Type:	Numeric			
Variable label:	Student time on task			
Unique values:	14			
Missing values:	1,458			
Min:	1.00			
Mean:	3.13			
Max:	4.00			
Std. Dev.:	0.58			
Skew:	-0.35			

Value	Label	Freq.	Percent	
1		77	0.4%	
1.333333		57	0.3%	
1.5		2	0.0%	
1.666667		172	1.0%	
2		510	2.9%	
All other values		15763	89.8%	

Percentiles:				
10%	25%	50%	75%	90%
2.333333	2.666667	3	3	4

Name:	SB_OTL			
Type:	Numeric			
Variable label:	Student perception of overall opportunity to learn			
Unique values:	13			
Missing values:	1,572			
Min:	0.00			
Mean:	8.29			
Max:	11.00			
Std. Dev.:	2.05			
Skew:	-0.71			

Value	Label	Freq.	Percent	
0		95	0.5%	
1		39	0.2%	
2		56	0.3%	
3		108	0.6%	
4		276	1.6%	
All other values		16317	93.0%	

Percentiles:				
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10%	25%	50%	75%	90%
6	7	8	8	11

Name: SB_OTL_FUNCTION

Type: Numeric
 Variable label: Student perception of opportunity to use quadratic functions
 Unique values: 4
 Missing values: 1,572
 Min: 0.00
 Mean: 1.29
 Max: 2.00
 Std. Dev.: 0.80
 Skew: -0.56

Value	Label	Freq.	Percent
0		3518	20.0%
1		4390	25.0%
2		8074	46.0%
.		1572	9.0%

Percentiles:

10%	25%	50%	75%	90%
0	1	2	2	2

Name: SB_OTL_ALGEBRA

Type: Numeric
 Variable label: Student perception of opportunity to learn algebraic operations
 Unique values: 7
 Missing values: 1,572
 Min: 0.00
 Mean: 4.48
 Max: 5.00
 Std. Dev.: 0.90
 Skew: -2.30

Value	Label	Freq.	Percent
0		139	0.8%
1		143	0.8%
2		386	2.2%
3		1137	6.5%
4		3540	20.2%
All other values		1572	9.0%

Percentiles:

10%	25%	50%	75%	90%
3	4	5	5	5

Name: SB_OTL_REASON
Type: Numeric
Variable label: Student perception of opportunity to learn reasoning about different types of quadratic equations
Unique values: 4
Missing values: 1,572
Min: 0.00
Mean: 1.65
Max: 2.00
Std. Dev.: 0.61
Skew: -1.54

Value	Label	Freq.	Percent
0		1152	6.6%
1		3283	18.7%
2		11547	65.8%
.		1572	9.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	2

Name: SB_OTL_APPLIED
Type: Numeric
Variable label: Student perception of opportunity to apply quadratic equations to real world contexts
Unique values: 4
Missing values: 1,572
Min: 0.00
Mean: 0.87
Max: 2.00
Std. Dev.: 0.84
Skew: 0.26

Value	Label	Freq.	Percent
0		6839	39.0%
1		4434	25.3%
2		4709	26.8%
.		1572	9.0%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	2

Name: SB_EFFICACY
Type: Numeric
Variable label: Student self-efficacy with mathematical tasks
Unique values: 128
Missing values: 1,734
Min: 1.00
Mean: 2.71
Max: 4.00
Std. Dev.: 0.67
Skew: -0.11

Value	Label	Freq.	Percent
1		311	1.8%
1.090909		49	0.3%
1.1		1	0.0%
1.111111		2	0.0%
1.125		2	0.0%
All other values		17187	97.9%

Percentiles:

10%	25%	50%	75%	90%
1.909091	2.272727	2.727273	2.727273	3.636364

Name: SB_CLARITY
Type: Numeric
Variable label: Student clarity of instruction
Unique values: 20
Missing values: 1,465
Min: 1.00
Mean: 3.11
Max: 4.00
Std. Dev.: 0.70
Skew: -0.61

Value	Label	Freq.	Percent
1		138	0.8%
1.25		141	0.8%

1.333333	2	0.0%
1.5	215	1.2%
1.666667	10	0.1%
All other values	16651	94.9%

Percentiles:

10%	25%	50%	75%	90%
2	2.75	3	3	4

Name: SB_COGACT
Type: Numeric
Variable label: Student perception of teacher's ability to elicit cognitive activation in mathematics class

Unique values: 14
Missing values: 1,507
Min: 1.00
Mean: 2.62
Max: 4.00
Std. Dev.: 0.79
Skew: -0.03

Value	Label	Freq.	Percent
1		532	3.0%
1.333333		823	4.7%
1.5		25	0.1%
1.666667		1332	7.6%
2		2035	11.6%
All other values		10511	59.9%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2	2.666667	2.666667	3.666667

Name: SB_CE_COGACT
Type: Numeric
Variable label: Subscale for student perception of teacher's ability to elicit cognitive activation in mathematics class (excludes item SQB08F)

Unique values: 20
Missing values: 1,482
Min: 1.00
Mean: 2.74

Max: 4.00
Std. Dev.: 0.72
Skew: -0.09

Value	Label	Freq.	Percent
1		223	1.3%
1.25		264	1.5%
1.333333		7	0.0%
1.5		554	3.2%
1.666667		18	0.1%
All other values		15576	88.7%

Percentiles:

10%	25%	50%	75%	90%
1.75	2.25	2.75	2.75	3.75

Name: SB_DISCOURSE
Type: Numeric
Variable label: Student perception of teacher's use of discourse
Unique values: 14
Missing values: 1,502
Min: 1.00
Mean: 2.78
Max: 4.00
Std. Dev.: 0.83
Skew: -0.25

Value	Label	Freq.	Percent
1		547	3.1%
1.333333		667	3.8%
1.5		15	0.1%
1.666667		1031	5.9%
2		1801	10.3%
All other values		11763	67.0%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2	3	3	4

Name: SB_MEANING
Type: Numeric
Variable label: Student perception of teacher's focus on meaning

Unique values: 20
 Missing values: 1,490
 Min: 1.00
 Mean: 3.06
 Max: 4.00
 Std. Dev.: 0.75
 Skew: -0.54

Value	Label	Freq.	Percent
1		185	1.1%
1.25		210	1.2%
1.333333		1	0.0%
1.5		344	2.0%
1.666667		5	0.0%
All other values		16342	93.1%

Percentiles:

10%	25%	50%	75%	90%
2	2.5	3	3	4

Name: SB_EXPL_PROC
 Type: Numeric
 Variable label: Student explaining procedures
 Unique values: 14
 Missing values: 1,482
 Min: 1.00
 Mean: 3.00
 Max: 4.00
 Std. Dev.: 0.81
 Skew: -0.54

Value	Label	Freq.	Percent
1		443	2.5%
1.333333		405	2.3%
1.5		7	0.0%
1.666667		592	3.4%
2		1358	7.7%
All other values		13468	76.7%

Percentiles:

10%	25%	50%	75%	90%
2	2.333333	3	3	4

Name:	SB_ADAPT				
Type:	Numeric				
Variable label:	Student perception of teacher's adaptation of instruction to student needs				
Unique values:	30				
Missing values:	1,521				
Min:	1.00				
Mean:	2.90				
Max:	4.00				
Std. Dev.:	0.60				
Skew:	-0.37				
Value	Label	Freq.	Percent		
1		152	0.9%		
1.2		72	0.4%		
1.4		149	0.8%		
1.5		2	0.0%		
1.6		186	1.1%		
All other values		16992	96.8%		
Percentiles:					
	10%	25%	50%	75%	90%
	2.2	2.6	3	3	3.6

Name:	SB_CLASSMAN				
Type:	Numeric				
Variable label:	Student perception of teacher's level of classroom management				
Unique values:	72				
Missing values:	1,488				
Min:	1.00				
Mean:	3.02				
Max:	4.00				
Std. Dev.:	0.48				
Skew:	-0.06				
Value	Label	Freq.	Percent		
1		6	0.0%		
1.1		2	0.0%		
1.2		3	0.0%		
1.3		13	0.1%		
1.4		13	0.1%		
All other values		17493	99.7%		
Percentiles:					
	10%	25%	50%	75%	90%
	2.444444	2.7	3	3	3.7

Name: SB_CM_DISRUPT
Type: Numeric
Variable label: Student perception of classroom disruptions and teacher's reaction to them
Unique values: 14
Missing values: 1,476
Min: 1.00
Mean: 2.88
Max: 4.00
Std. Dev.: 0.81
Skew: -0.39

Value	Label	Freq.	Percent
1		648	3.7%
1.333333		351	2.0%
1.5		13	0.1%
1.666667		554	3.2%
2		1872	10.7%
All other values		12697	72.3%

Percentiles:

10%	25%	50%	75%	90%
2	2.333333	3	3	4

Name: SB_CM_TEACHMAN
Type: Numeric
Variable label: Student teacher management of classroom disruptions
Unique values: 20
Missing values: 1,501
Min: 1.00
Mean: 3.07
Max: 4.00
Std. Dev.: 0.65
Skew: -0.61

Value	Label	Freq.	Percent
1		225	1.3%
1.25		94	0.5%
1.333333		3	0.0%
1.5		140	0.8%
1.666667		5	0.0%
All other values		16849	96.0%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name: SB_TESUP
Type: Numeric
Variable label: Student perception of teacher support
Unique values: 14
Missing values: 1,541
Min: 1.00
Mean: 3.22
Max: 4.00
Std. Dev.: 0.67
Skew: -0.77

Value	Label	Freq.	Percent
1		259	1.5%
1.333333		123	0.7%
1.5		2	0.0%
1.666667		162	0.9%
2		491	2.8%
All other values		15770	89.8%

Percentiles:

10%	25%	50%	75%	90%
2.333333	3	3	3	4

Name: SB_SUPCOM
Type: Numeric
Variable label: Student perception of teacher support for competence
Unique values: 20
Missing values: 1,545
Min: 1.00
Mean: 3.05
Max: 4.00
Std. Dev.: 0.74
Skew: -0.63

Value	Label	Freq.	Percent
1		383	2.2%
1.25		171	1.0%
1.333333		3	0.0%
1.5		209	1.2%

1.666667	7	0.0%
All other values	16505	94.0%

Percentiles:

10%	25%	50%	75%	90%
2	2.75	3	3	4

Name: SB_SUPAUT
Type: Numeric
Variable label: Student perceived support for autonomy
Unique values: 20
Missing values: 1,554
Min: 1.00
Mean: 2.98
Max: 4.00
Std. Dev.: 0.67
Skew: -0.46

Value	Label	Freq.	Percent
1		271	1.5%
1.25		104	0.6%
1.333333		1	0.0%
1.5		206	1.2%
1.666667		6	0.0%
All other values		16705	95.2%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.5	3	3	4

Name: SB_REL_STUDTEACH
Type: Numeric
Variable label: Student perception of student-teacher relationship
Unique values: 30
Missing values: 1,539
Min: 1.00
Mean: 3.12
Max: 4.00
Std. Dev.: 0.68
Skew: -0.63

Value	Label	Freq.	Percent
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1			247		1.4%
1.2			68		0.4%
1.333333			1		0.0%
1.4			119		0.7%
1.5			2		0.0%
All other values			16971		96.7%

Percentiles:					
	10%	25%	50%	75%	90%
	2.25	2.8	3	3	4

Name: SB_REL_STUDSTUD
Type: Numeric
Variable label: Student perception of student-student relationships
Unique values: 20
Missing values: 1,537
Min: 1.00
Mean: 3.27
Max: 4.00
Std. Dev.: 0.68
Skew: -0.77

Value	Label	Freq.	Percent
1		81	0.5%
1.25		38	0.2%
1.333333		2	0.0%
1.5		79	0.5%
1.666667		3	0.0%
All other values		16881	96.2%

Percentiles:					
	10%	25%	50%	75%	90%
	2.25	2.75	3.25	3.25	4

Name: SB_EXPECT
Type: Numeric
Variable label: Student high expectations for students
Unique values: 20
Missing values: 1,549
Min: 1.00
Mean: 3.04

Max: 4.00
Std. Dev.: 0.63
Skew: -0.34

Value	Label	Freq.	Percent
1		93	0.5%
1.25		38	0.2%
1.333333		3	0.0%
1.5		128	0.7%
1.666667		3	0.0%
All other values		16988	96.8%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name: SB_ASSESS_CHECK
Type: Numeric
Variable label: Student assessment - checking by questions
Unique values: 3
Missing values: 1,571
Min: 1.00
Mean: 1.22
Max: 2.00
Std. Dev.: 0.42
Skew: 1.34

Value	Label	Freq.	Percent
1		12435	70.8%
2		3548	20.2%
.		1571	8.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SB_ASSESS_SELFEV
Type: Numeric
Variable label: Student assessment - self-evaluation
Unique values: 3
Missing values: 1,614
Min: 1.00

Mean: 1.45
Max: 2.00
Std. Dev.: 0.50
Skew: 0.22

Value	Label	Freq.	Percent
1		8829	50.3%
2		7111	40.5%
.		1614	9.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SB_ASSESS_OBS
Type: Numeric
Variable label: Student assessment - teacher observation
Unique values: 3
Missing values: 1,662
Min: 1.00
Mean: 1.22
Max: 2.00
Std. Dev.: 0.42
Skew: 1.32

Value	Label	Freq.	Percent
1		12330	70.2%
2		3562	20.3%
.		1662	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SB_FEEDBACK
Type: Numeric
Variable label: Student perception of level of feedback received from teacher
Unique values: 20
Missing values: 1,598
Min: 1.00
Mean: 2.34
Max: 4.00

Std. Dev.: 0.81

Skew: 0.20

Value	Label	Freq.	Percent
1		1095	6.2%
1.25		1144	6.5%
1.333333		6	0.0%
1.5		1250	7.1%
1.666667		8	0.0%
All other values		12709	72.4%

Percentiles:

10%	25%	50%	75%	90%
1.25	1.75	2.25	2.25	3.5

Name: SB_TEACHENTHUS

Type: Numeric

Variable label: Student perceived teacher enthusiasm

Unique values: 55

Missing values: 1,596

Min: 1.00

Mean: 3.10

Max: 4.00

Std. Dev.: 0.65

Skew: -0.52

Value	Label	Freq.	Percent
1		180	1.0%
1.125		16	0.1%
1.25		28	0.2%
1.285714		1	0.0%
1.375		46	0.3%
All other values		17220	98.1%

Percentiles:

10%	25%	50%	75%	90%
2.25	2.75	3	3	4

Name: SB_REACTIVITY_TEACH

Type: Numeric

Variable label: Student teacher reactivity to videographing

Unique values: 65

Missing values: 1,640
 Min: 1.00
 Mean: 3.32
 Max: 5.00
 Std. Dev.: 0.67
 Skew: 0.13

Value	Label	Freq.	Percent
1		64	0.4%
1.142857		10	0.1%
1.285714		19	0.1%
1.333333		1	0.0%
1.428571		21	0.1%
All other values		17438	99.3%

Percentiles:

10%	25%	50%	75%	90%
2.571429	3	3.142857	3.142857	4.285714

Name: SB_REACTIVITY_STUD
 Type: Numeric
 Variable label: Student self reactivity to videographing
 Unique values: 26
 Missing values: 1,632
 Min: 1.00
 Mean: 3.24
 Max: 5.00
 Std. Dev.: 0.75
 Skew: 0.02

Value	Label	Freq.	Percent
1		170	1.0%
1.25		63	0.4%
1.333333		2	0.0%
1.5		121	0.7%
1.666667		3	0.0%
All other values		17006	96.9%

Percentiles:

10%	25%	50%	75%	90%
2.5	3	3	3	4.25

Name: SB_TESTDIFF
Type: Numeric
Variable label: Student perception of the test - difficulty
Unique values: 5
Missing values: 1,722
Min: 1.00
Mean: 2.00
Max: 4.00
Std. Dev.: 0.96
Skew: 0.60

Value	Label	Freq.	Percent
1		5861	33.4%
2		5483	31.2%
3		3098	17.6%
4		1390	7.9%
.		1722	9.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SB_TESTMOD
Type: Numeric
Variable label: Student perception of the test - motivation
Unique values: 5
Missing values: 1,700
Min: 1.00
Mean: 2.00
Max: 4.00
Std. Dev.: 0.83
Skew: 0.70

Value	Label	Freq.	Percent
1		4404	25.1%
2		8084	46.1%
3		2302	13.1%
4		1064	6.1%
.		1700	9.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: SB_TESTASP
Type: Numeric
Variable label: Student perception of the test - aspiration
Unique values: 5
Missing values: 1,660
Min: 1.00
Mean: 2.75
Max: 4.00
Std. Dev.: 1.02
Skew: -0.28

Value	Label	Freq.	Percent
1		2250	12.8%
2		4010	22.8%
3		5167	29.4%
4		4467	25.4%
.		1660	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: SB_NUMQMISS
Type: Numeric
Variable label: Counts of number of questions with missing responses
Unique values: 111
Missing values: 0
Min: 0.00
Mean: 12.77
Max: 138.00
Std. Dev.: 37.37
Skew: 2.98

Value	Label	Freq.	Percent
0		10190	58.0%
1		2383	13.6%
2		912	5.2%
3		608	3.5%
4		544	3.1%
All other values		2634	15.0%

Percentiles:

10%	25%	50%	75%	90%

Name: SQBNQ22
Type: Numeric
Variable label: 22. Did you learn about quadratic equations in a cram school, with a tutor, or in a summer school program?
Unique values: 4
Missing values: 0
Min: 1.00
Mean: 440.73
Max: 9993.00
Std. Dev.: 2049.31
Skew: 4.45

Value	Label	Freq.	Percent
1	Yes	1698	9.7%
2	No	606	3.5%
9993		106	0.6%
9999	Missing	15144	86.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: SQBNQ23
Type: Numeric
Variable label: 23. How many days did you study mathematics at a cram school during the summer vacation?
Unique values: 9
Missing values: 0
Min: 1.00
Mean: 519.71
Max: 9993.00
Std. Dev.: 2212.07
Skew: 4.05

Value	Label	Freq.	Percent
1	I don't know	307	1.7%
2	1-7 days	184	1.0%
3	8-14 days	421	2.4%
4	15-21 days	431	2.5%
5	22 days or more	602	3.4%
All other values		15503	88.3%

Percentiles:

10%	25%	50%	75%	90%
1	3	4	4	5

Name: SQBNQ24

Type: Numeric

Variable label: 24. How many days in total did you learn about quadratic equations at a cram school during summer vacation?

Unique values: 8

Missing values: 0

Min: 1.00

Mean: 506.71

Max: 9993.00

Std. Dev.: 2188.26

Skew: 4.11

Value	Label	Freq.	Percent
1	I don't know	720	4.1%
2	1-7 days	641	3.7%
3	8-14 days	340	1.9%
4	15-21 days	150	0.9%
5	22 days or more	142	0.8%
All other values		15455	88.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	5

Name: SQBNQ25

Type: Numeric

Variable label: 25. How difficult was the unit on quadration equations that you learned over summer vacation at a cram school?

Unique values: 7

Missing values: 0

Min: 1.00

Mean: 507.91

Max: 9993.00

Std. Dev.: 2191.29

Skew: 4.10

Value	Label	Freq.	Percent
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1	I don't know	602	3.4%
2	Same difficulty as in school	954	5.4%
3	High school entrance exam level or higher	431	2.5%
9993		106	0.6%
9997	Illegible response	1	0.0%
All other values		15459	88.1%

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	2	2	3

Name:	SQBNQ26_1		
Type:	Numeric		
Variable label:	26.a. During summer vacation, did you study solving quadratic equations using factorization?		
Unique values:	7		
Missing values:	0		
Min:	1.00		
Mean:	508.23		
Max:	9993.00		
Std. Dev.:	2190.11		
Skew:	4.10		
Value	Label	Freq.	Percent
1	I don't know	181	1.0%
2	Did not learn	131	0.7%
3	Learned	1677	9.6%
9993		106	0.6%
9997	Illegible response	1	0.0%
All other values		15455	88.0%

Percentiles:					
	10%	25%	50%	75%	90%
	2	3	3	3	3

Name:	SQBNQ26_2		
Type:	Numeric		
Variable label:	26.b. During summer vacation, did you study solving quadratic equations using the quadratic formula?		

Unique values: 7
 Missing values: 0
 Min: 1.00
 Mean: 507.72
 Max: 9993.00
 Std. Dev.: 2189.13
 Skew: 4.10

Value	Label	Freq.	Percent
1	I don't know	168	1.0%
2	Did not learn	205	1.2%
3	Learned	1618	9.2%
9993		106	0.6%
9997	Illegible response	1	0.0%
All other values		15454	88.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	3

Name: SQBNQ26_3

Type: Numeric

Variable label: 26.c. During summer vacation, did you study solving quadratic equations in real-world applications?

Unique values: 7

Missing values: 0

Min: 1.00

Mean: 507.87

Max: 9993.00

Std. Dev.: 2189.64

Skew: 4.10

Value	Label	Freq.	Percent
1	I don't know	217	1.2%
2	Did not learn	301	1.7%
3	Learned	1472	8.4%
9993		106	0.6%
9997	Illegible response	1	0.0%
All other values		15456	88.0%

Percentiles:

10%	25%	50%	75%	90%
1	3	3	3	3

Name:	SQB_STARTTIME1		
Type:	String		
Variable label:	SQB split 1 start time		
Unique values:	201		
Missing values:	15,120		
Value	Label	Freq.	Percent
		15120	86.1%
10:09		1	0.0%
10:10		2	0.0%
10:11		1	0.0%
10:12		2	0.0%
All other values		2423	13.8%

Name:	SQB_ENDTIME1		
Type:	String		
Variable label:	SQB split 1 end time		
Unique values:	185		
Missing values:	16,296		
Value	Label	Freq.	Percent
		16296	92.8%
10:00		1	0.0%
10:09		1	0.0%
10:34		1	0.0%
10:35		7	0.0%
All other values		1246	7.1%

Name:	SQB_STARTTIME2		
Type:	String		
Variable label:	SQB split 2 start time		
Unique values:	184		
Missing values:	16,296		
Value	Label	Freq.	Percent
		16296	92.8%
10:00		27	0.2%
10:35		7	0.0%
10:36		3	0.0%
10:38		3	0.0%
All other values		1216	6.9%

Name:	SQB_ENDTIME2		
Type:	String		
Variable label:	SQB split 2 end time		
Unique values:	225		
Missing values:	16,296		
Value	Label	Freq.	Percent
		16296	92.8%
10:00		5	0.0%
10:03		2	0.0%
10:04		1	0.0%
10:05		3	0.0%
All other values		1246	7.1%

Name:	SQB_STARTTIME3		
Type:	String		
Variable label:	SQB split 3 start time		
Unique values:	222		
Missing values:	16,296		
Value	Label	Freq.	Percent
		16296	92.8%
10:00		5	0.0%
10:01		1	0.0%
10:07		1	0.0%
10:15		24	0.1%
All other values		1226	7.0%

Name:	SQB_ENDTIME3		
Type:	String		
Variable label:	SQB split 3 end time		
Unique values:	369		
Missing values:	15,120		
Value	Label	Freq.	Percent
		15120	86.1%
10:00		25	0.1%
10:01		5	0.0%
10:02		6	0.0%
10:03		14	0.1%
All other values		2375	13.5%

Name: MINUTES_1_SQB
Type: String
Variable label: Minutes taken to complete SQB split 1
Unique values: 23
Missing values: 16,657

Value	Label	Freq.	Percent
		16657	94.9%
0		15	0.1%
1		10	0.1%
10		161	0.9%
11		33	0.2%
All other values		664	3.8%

Name: MINUTES_2_SQB
Type: String
Variable label: Minutes taken to complete SQB split 2
Unique values: 30
Missing values: 16,665

Value	Label	Freq.	Percent
		16665	94.9%
0		10	0.1%
1		5	0.0%
10		158	0.9%
11		12	0.1%
All other values		687	3.9%

Name: MINUTES_3_SQB
Type: String
Variable label: Minutes taken to complete SQB split 3
Unique values: 22
Missing values: 16,675

Value	Label	Freq.	Percent
		16675	95.0%
0		18	0.1%
1		52	0.3%
10		70	0.4%
11		4	0.0%
All other values		733	4.2%

Name: STA01
Type: Numeric
Variable label: 1. If $n+5=15$, what is n ?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.96
Max: 4.00
Std. Dev.: 0.30
Skew: -3.91

Value	Label	Freq.	Percent
1	-20	217	1.2%
2	-10	417	2.4%
3	10	15684	89.3%
4	20	231	1.3%
9997	Illegible response	1	0.0%
All other values		996	5.7%

Percentiles:

10%	25%	50%	75%	90%
3	3	3	3	3

Name: STA02
Type: Numeric
Variable label: 2. $-4.3 + 1.2 + (-5.7) =$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.82
Max: 4.00
Std. Dev.: 0.83
Skew: -0.95

Value	Label	Freq.	Percent
1	8.8	2003	11.4%
2	2.6	1320	7.5%
3	-8.8	10573	60.2%
4	-11.2	2436	13.9%
9997	Illegible response	1	0.0%
All other values		1215	6.9%

Percentiles:

10%	25%	50%	75%	90%
1	3	3	3	4

Name: STA03
Type: Numeric
Variable label: 3. 4 x (-8) =
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 1.21
Max: 4.00
Std. Dev.: 0.70
Skew: 3.38

Value	Label	Freq.	Percent
1	-32	14849	84.6%
2	-4	581	3.3%
3	12	231	1.3%
4	32	809	4.6%
9998	Multiple responses	1	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: STA04
Type: Numeric
Variable label: 4. Which of the following are pairs of numbers a,b, so that a + b = 2154?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.06
Max: 4.00
Std. Dev.: 0.43
Skew: 2.03

Value	Label	Freq.	Percent
1	a=1198, b=856	677	3.9%
2	a=1298, b=856	14433	82.2%
3	a=1398, b=856	929	5.3%
4	a=1498, b=856	353	2.0%
9998	Multiple responses	7	0.0%

All other values 0 0.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	2

Name: STA05
Type: Numeric
Variable label: 5. Which of the following numbers is NOT a divisor of 258?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.27
Max: 4.00
Std. Dev.: 0.69
Skew: 1.07

Value	Label	Freq.	Percent
1	6	944	5.4%
2	9	11293	64.3%
3	43	2725	15.5%
4	129	1299	7.4%
9998	Multiple responses	36	0.2%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	3

Name: STA06
Type: Numeric
Variable label: 6. What is 1,092 as a product of prime numbers?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 3.31
Max: 4.00
Std. Dev.: 1.01
Skew: -1.14

Value	Label	Freq.	Percent
1	(2)(3)(91)	1355	7.7%

2	(2)(3)(7)(13)	2353	13.4%
3	(2)(3)(7 ²)(13)	2264	12.9%
4	(2 ²)(3)(7)(13)	9950	56.7%
9997	Illegible response	1	0.0%
All other values		1625	9.3%

Percentiles:

10%	25%	50%	75%	90%
2	3	4	4	4

Name:	STA07		
Type:	Numeric		
Variable label:	7. Sqrt(64) =		
Unique values:	7		
Missing values:	0		
Min:	1.00		
Mean:	1.20		
Max:	4.00		
Std. Dev.:	0.62		
Skew:	3.02		
Value	Label	Freq.	Percent
1	8	14781	84.2%
2	16	359	2.0%
3	32	1114	6.3%
4	128	244	1.4%
9997	Illegible response	1	0.0%
All other values		1050	6.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name:	STA08		
Type:	Numeric		
Variable label:	8. Sqrt(4) + sqrt(16) - sqrt(1) =		
Unique values:	7		
Missing values:	0		
Min:	1.00		
Mean:	2.14		
Max:	4.00		

Std. Dev.:	0.54		
Skew:	1.59		
Value	Label	Freq.	Percent
1	4+16-1	728	4.1%
2	2+4-1	13269	75.6%
3	2+8-1	1849	10.5%
4	16+256-1	629	3.6%
9997	Illegible response	1	0.0%
All other values		1076	6.1%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	3

Name: STA09
Type: Numeric
Variable label: 9. What numbers squared are equal to 9 ?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.77
Max: 4.00
Std. Dev.: 0.70
Skew: -1.67

Value	Label	Freq.	Percent
1	-81 and 81	1887	10.7%
2	-9 and 9	661	3.8%
3	-3 and 3	13131	74.8%
4	-1/9 and 1/9	658	3.7%
9998	Multiple responses	19	0.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	3	3	3	3

Name: STA10
Type: Numeric
Variable label: 10. If $5a + 5 = 25$, which of the following is true?
Unique values: 6

Missing values: 0
 Min: 1.00
 Mean: 2.12
 Max: 4.00
 Std. Dev.: 0.60
 Skew: 1.97

Value	Label	Freq.	Percent
1	a=20	878	5.0%
2	5a=20	13824	78.8%
3	5a=30	471	2.7%
4	a+5=5	1218	6.9%
9998	Multiple responses	8	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	3

Name: STA11
Type: Numeric
Variable label: 11. If $3x = 0$, then $x =$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.26
Max: 4.00
Std. Dev.: 0.91
Skew: 0.91

Value	Label	Freq.	Percent
1	-3	2285	13.0%
2	0	10633	60.6%
3	1/3	473	2.7%
4	There is no solution because division by zero is undefined	3006	17.1%
9997	Illegible response	1	0.0%
All other values		1134	6.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: STA12
Type: Numeric
Variable label: 12. If $ab \neq 0$, what must be true for a and b?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 1.57
Max: 4.00
Std. Dev.: 1.01
Skew: 1.53

Value	Label	Freq.	Percent
1	$a \neq 0$ and $b \neq 0$	11562	65.9%
2	$a \neq 0$ and $b = 0$	1567	8.9%
3	$a = 0$ and $b \neq 0$	1341	7.6%
4	$a = 0$ and $b = 0$	1626	9.3%
9997	Illegible response	4	0.0%
All other values		1427	8.1%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	4

Name: STA13
Type: Numeric
Variable label: 13. A large rectangle and some of its measurements, in centimeters, are shown in the figure. Which of the following algebraic expressions represents the area, in square centimeters, of the large rectangle?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.24
Max: 4.00
Std. Dev.: 0.76
Skew: 1.35

Value	Label	Freq.	Percent
1	abc	1083	6.2%
2	$(a+b)c$	12384	70.5%
3	$(a+c)b$	713	4.1%
4	$(b+c)a$	2171	12.4%
9998	Multiple responses	3	0.0%

All other values	0	0.0%
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Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	4

Name: STA14
Type: Numeric
Variable label: 14. $-4(x + 2y) + 3(x + 5y) =$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 1.46
Max: 4.00
Std. Dev.: 0.90
Skew: 1.83

Value	Label	Freq.	Percent
1	-x+7y	12158	69.3%
2	2x-6y	1585	9.0%
3	5x+9y	1303	7.4%
4	-x-3y	1053	6.0%
9997	Illegible response	2	0.0%
All other values		1450	8.3%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name: STA15
Type: Numeric
Variable label: 15. $(3x + 2)(2x - 3) =$
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 3.03
Max: 4.00
Std. Dev.: 1.22
Skew: -0.71

Value	Label	Freq.	Percent
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1	$6x^2 + 6$	3197	18.2%
2	$6x^2 + 4x - 6$	2308	13.1%
3	$6x^2 - 9x - 6$	1534	8.7%
4	$6x^2 - 5x - 6$	9247	52.7%
9998	Multiple responses	6	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	4	4	4

Name:	STA16		
Type:	Numeric		
Variable label:	16. $(y + 8n)(y - 8n) =$		
Unique values:	6		
Missing values:	0		
Min:	1.00		
Mean:	3.34		
Max:	4.00		
Std. Dev.:	1.06		
Skew:	-1.31		
Value	Label	Freq.	Percent
1	$y^2 + 16ny - 64n^2$	1901	10.8%
2	$y^2 - 16ny + 64n^2$	1571	8.9%
3	$y^2 + 64n^2$	1797	10.2%
4	$y^2 - 64n^2$	10976	62.5%
9998	Multiple responses	5	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	3	4	4	4

Name:	STA17		
Type:	Numeric		
Variable label:	17. $x^2 - 81 =$		
Unique values:	6		
Missing values:	0		
Min:	1.00		
Mean:	2.68		

Max: 4.00
 Std. Dev.: 0.73
 Skew: -1.31

Value	Label	Freq.	Percent
1	$(x-9)(x-9)$	1961	11.2%
2	$x(x-81)$	1833	10.4%
3	$(x+9)(x-9)$	11859	67.6%
4	$(x+9)(x+9)$	579	3.3%
9998	Multiple responses	5	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	3	3	3	3

Name: STA18
Type: Numeric
Variable label: 18. $6x^2 - x - 1 =$
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.48
Max: 4.00
Std. Dev.: 0.85
Skew: -0.42

Value	Label	Freq.	Percent
1	$(3x-1)(2x-1)$	2628	15.0%
2	$(3x-1)(2x+1)$	4104	23.4%
3	$(3x+1)(2x-1)$	8163	46.5%
4	$(3x+1)(2x+1)$	1103	6.3%
9998	Multiple responses	12	0.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	3

Name: STA19
Type: Numeric
Variable label: 19. $(x-3)(x+5) =$

Unique values: 6
 Missing values: 0
 Min: 1.00
 Mean: 3.02
 Max: 4.00
 Std. Dev.: 1.28
 Skew: -0.74

Value	Label	Freq.	Percent
1	$x^2 - 15$	4007	22.8%
2	$x^2 - 3x + 5$	1164	6.6%
3	$x^2 - 3x + 15$	1492	8.5%
4	$x^2 + 2x - 15$	9559	54.5%
9998	Multiple responses	9	0.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	4	4	4

Name: STA20
 Type: Numeric
 Variable label: 20. $(3x - 2)^2 =$
 Unique values: 6
 Missing values: 0
 Min: 1.00
 Mean: 1.85
 Max: 4.00
 Std. Dev.: 0.81
 Skew: 1.03

Value	Label	Freq.	Percent
1	$9x^2 + 4$	5641	32.1%
2	$9x^2 - 12x + 4$	8380	47.7%
3	$3x^2 - 12x + 4$	1055	6.0%
4	$6x^2 - 12x + 4$	1096	6.2%
9998	Multiple responses	1	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: STA21
Type: Numeric
Variable label: 21. In Xuhui Park, there is a rectangular field with a width of 12 meters, and a length of 16 meters. What is the area of the field?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.72
Max: 4.00
Std. Dev.: 0.70
Skew: -1.75

Value	Label	Freq.	Percent
1	28 sq meters	2064	11.8%
2	84 sq meters	753	4.3%
3	192 sq meters	13169	75.0%
4	1112 sq meters	290	1.7%
9998	Multiple responses	3	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	3	3	3	3

Name: STA22
Type: Numeric
Variable label: 22. If $\sqrt{5} < a < \sqrt{30}$, which of the following integers is a solution, a, to the inequality?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 1.97
Max: 4.00
Std. Dev.: 1.16
Skew: 0.75

Value	Label	Freq.	Percent
1	3	7970	45.4%
2	6	3219	18.3%
3	12	1802	10.3%
4	25	2864	16.3%
9997	Illegible response	2	0.0%
All other values		1674	9.5%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	4

Name: STA23
Type: Numeric
Variable label: 23. Kia and two friends rented a canoe. Each person must have a life jacket. If the total bill was \$43, for how many hours did they rent the canoe? (Canoe Rental: \$8/hour; \$5/life jacket)
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 1.38
Max: 4.00
Std. Dev.: 0.70
Skew: 1.88

Value	Label	Freq.	Percent
1	3.5 hours	11767	67.0%
2	4.75 hours	2869	16.3%
3	6 hours	1154	6.6%
4	7.25 hours	316	1.8%
9997	Illegible response	1	0.0%
All other values		1443	8.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	2

Name: STA24
Type: Numeric
Variable label: 24. Which of the following equations has the solution, $x = 9$?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.54
Max: 4.00
Std. Dev.: 0.94
Skew: -0.52

Value	Label	Freq.	Percent
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1	$5x+1 = 3(x+3)$	3310	18.9%
2	$5-3(7x-2)=4$	2083	11.9%
3	$(2x+3)/3 = (4x-1)5$	8444	48.1%
4	$0.5x - 1.5 = -x + 6$	1573	9.0%
9997	Illegible response	2	0.0%
All other values		2132	12.1%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: STA25
Type: Numeric
Variable label: 25. $(5x + y - 7) + (6y - x + 54) =$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.30
Max: 4.00
Std. Dev.: 0.78
Skew: 0.87

Value	Label	Freq.	Percent
1	$11y+47$	1318	7.5%
2	$4x+7y+47$	10043	57.2%
3	$6x+7y+61$	2450	14.0%
4	$5x+6y-47$	1755	10.0%
9997	Illegible response	2	0.0%
All other values		1982	11.3%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	4

Name: STA26
Type: Numeric
Variable label: 26. A square with side lengths of $x + 2$ centimeters is shown in the figure. What is the area of the square, in square centimeters?
Unique values: 7
Missing values: 0
Min: 1.00

Mean: 2.40
 Max: 4.00
 Std. Dev.: 0.67
 Skew: 0.26

Value	Label	Freq.	Percent
1	$x^2 + 2$	937	5.3%
2	$x^2 + 4x + 4$	8440	48.1%
3	$x^2 + 4$	5721	32.6%
4	$x^2 + 2x + 2$	736	4.2%
9997	Illegible response	1	0.0%
All other values		1715	9.8%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	3

Name: STA27

Type: Numeric

Variable label: 27. The figure above shows the measures of the sides, in meters, of a rectangular plot of land. What is the area of the plot, in square meters? (Side lengths: $x-1$, $x+3$)

Unique values: 6

Missing values:

0

Min: 1.00

Mean: 2.82

Max: 4.00

Std. Dev.: 0.73

Skew: -1.01

Value	Label	Freq.	Percent
1	$2x^2 - 2x + 3$	1317	7.5%
2	$2x^2 + 2x - 3$	1812	10.3%
3	$x^2 + 2x - 3$	10601	60.4%
4	$x^2 + 2x + 3$	1693	9.6%
9998	Multiple responses	3	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: STA28
Type: Numeric
Variable label: 28. If the area of the rectangle shown above is 24, what is the value of x ? (Side lengths: $2x+2$, x)
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.98
Max: 4.00
Std. Dev.: 1.23
Skew: -0.67

Value	Label	Freq.	Percent
1	$x=8$	3346	19.1%
2	$x=7\frac{1}{3}$	1679	9.6%
3	$x=4\frac{1}{2}$	2185	12.4%
4	$x=3$	8057	45.9%
9997	Illegible response	2	0.0%
All other values		2284	13.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	4	4	4

Name: STA29
Type: Numeric
Variable label: 29. $4(x^2 + 6x + 9) =$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.66
Max: 4.00
Std. Dev.: 0.74
Skew: -1.00

Value	Label	Freq.	Percent
1	$4(x-3)^2$	1630	9.3%
2	$(4x+3)^2$	2634	15.0%
3	$4(x+3)^2$	10155	57.9%
4	$(4x-3)^2$	784	4.5%
9997	Illegible response	1	0.0%
All other values		2348	13.4%

Percentiles:

10%	25%	50%	75%	90%

1

2

3

3

3

Name: STA30
Type: Numeric
Variable label: 30. $x^2 + 7x + 10 =$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 3.48
Max: 4.00
Std. Dev.: 0.95
Skew: -1.69

Value	Label	Freq.	Percent
1	$(x-7)^2$	1282	7.3%
2	$(x-1)(x+5)$	1074	6.1%
3	$(x-3)(x-7)$	1799	10.2%
4	$(x+2)(x+5)$	10959	62.4%
9997	Illegible response	1	0.0%
All other values		2433	13.9%

Percentiles:

10%
2

25%
3

50%
4

75%
4

90%
4

Name: STA_SCORE01
Type: Numeric
Variable label: STA question 1 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.90
Max: 1.00
Std. Dev.: 0.30
Skew: -2.66

Value	Label	Freq.	Percent
0	No	1753	10.0%
1	Yes	15684	89.3%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	1	1	1	1

Name: STA_SCORE02
Type: Numeric
Variable label: STA question 2 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.61
Max: 1.00
Std. Dev.: 0.49
Skew: -0.44

Value	Label	Freq.	Percent
0	No	6864	39.1%
1	Yes	10573	60.2%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE03
Type: Numeric
Variable label: STA question 3 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.85
Max: 1.00
Std. Dev.: 0.36
Skew: -1.98

Value	Label	Freq.	Percent
0	No	2588	14.7%
1	Yes	14849	84.6%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	1	1	1	1

Name:	STA_SCORE04			
Type:	Numeric			
Variable label:	STA question 4 answered correctly			
Unique values:	3			
Missing values:	0			
Min:	0.00			
Mean:	0.83			
Max:	1.00			
Std. Dev.:	0.38			
Skew:	-1.74			

Value	Label	Freq.	Percent
0	No	3004	17.1%
1	Yes	14433	82.2%
9999	Missing	117	0.7%

Percentiles:					
	10%	25%	50%	75%	90%
	0	1	1	1	1

Name:	STA_SCORE05			
Type:	Numeric			
Variable label:	STA question 5 answered correctly			
Unique values:	3			
Missing values:	0			
Min:	0.00			
Mean:	0.65			
Max:	1.00			
Std. Dev.:	0.48			
Skew:	-0.62			

Value	Label	Freq.	Percent
0	No	6144	35.0%
1	Yes	11293	64.3%
9999	Missing	117	0.7%

Percentiles:					
	10%	25%	50%	75%	90%
	0	0	1	1	1

Name:	STA_SCORE06			
Type:	Numeric			
Variable label:	STA question 6 answered correctly			
Unique values:	3			
Missing values:	0			
Min:	0.00			
Mean:	0.57			
Max:	1.00			
Std. Dev.:	0.50			
Skew:	-0.29			

Value	Label	Freq.	Percent	
0	No	7487	42.7%	
1	Yes	9950	56.7%	
9999	Missing	117	0.7%	

Percentiles:					
	10%	25%	50%	75%	90%
	0	0	1	1	1

Name:	STA_SCORE07			
Type:	Numeric			
Variable label:	STA question 7 answered correctly			
Unique values:	3			
Missing values:	0			
Min:	0.00			
Mean:	0.85			
Max:	1.00			
Std. Dev.:	0.36			
Skew:	-1.94			

Value	Label	Freq.	Percent	
0	No	2656	15.1%	
1	Yes	14781	84.2%	
9999	Missing	117	0.7%	

Percentiles:					
	10%	25%	50%	75%	90%
	0	1	1	1	1

Name: STA_SCORE08
Type: Numeric
Variable label: STA question 8 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.76
Max: 1.00
Std. Dev.: 0.43
Skew: -1.22

Value	Label	Freq.	Percent
0	No	4168	23.7%
1	Yes	13269	75.6%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	1	1	1	1

Name: STA_SCORE09
Type: Numeric
Variable label: STA question 9 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.75
Max: 1.00
Std. Dev.: 0.43
Skew: -1.17

Value	Label	Freq.	Percent
0	No	4306	24.5%
1	Yes	13131	74.8%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	1	1	1	1

Name: STA_SCORE10
Type: Numeric

Variable label: STA question 10 answered correctly
 Unique values: 3
 Missing values: 0
 Min: 0.00
 Mean: 0.79
 Max: 1.00
 Std. Dev.: 0.41
 Skew: -1.44

Value	Label	Freq.	Percent
0	No	3613	20.6%
1	Yes	13824	78.8%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	1	1	1	1

Name: STA_SCORE11
 Type: Numeric
 Variable label: STA question 11 answered correctly
 Unique values: 3
 Missing values: 0
 Min: 0.00
 Mean: 0.61
 Max: 1.00
 Std. Dev.: 0.49
 Skew: -0.45

Value	Label	Freq.	Percent
0	No	6804	38.8%
1	Yes	10633	60.6%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE12
 Type: Numeric
 Variable label: STA question 12 answered correctly
 Unique values: 3

Missing values: 0
 Min: 0.00
 Mean: 0.66
 Max: 1.00
 Std. Dev.: 0.47
 Skew: -0.69

Value	Label	Freq.	Percent
0	No	5875	33.5%
1	Yes	11562	65.9%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE13
Type: Numeric
Variable label: STA question 13 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.71
Max: 1.00
Std. Dev.: 0.45
Skew: -0.93

Value	Label	Freq.	Percent
0	No	5053	28.8%
1	Yes	12384	70.5%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE14
Type: Numeric
Variable label: STA question 14 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00

Mean: 0.70
Max: 1.00
Std. Dev.: 0.46
Skew: -0.86

Value	Label	Freq.	Percent
0	No	5279	30.1%
1	Yes	12158	69.3%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE15
Type: Numeric
Variable label: STA question 15 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.53
Max: 1.00
Std. Dev.: 0.50
Skew: -0.12

Value	Label	Freq.	Percent
0	No	8190	46.7%
1	Yes	9247	52.7%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE16
Type: Numeric
Variable label: STA question 16 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.63
Max: 1.00

Std. Dev.:	0.48		
Skew:	-0.54		
Value	Label	Freq.	Percent
0	No	6461	36.8%
1	Yes	10976	62.5%
9999	Missing	117	0.7%

Percentiles:				
10%	25%	50%	75%	90%
0	0	1	1	1

Name:	STA_SCORE17		
Type:	Numeric		
Variable label:	STA question 17 answered correctly		
Unique values:	3		
Missing values:	0		
Min:	0.00		
Mean:	0.68		
Max:	1.00		
Std. Dev.:	0.47		
Skew:	-0.77		
Value	Label	Freq.	Percent
0	No	5578	31.8%
1	Yes	11859	67.6%
9999	Missing	117	0.7%

Percentiles:				
10%	25%	50%	75%	90%
0	0	1	1	1

Name:	STA_SCORE18		
Type:	Numeric		
Variable label:	STA question 18 answered correctly		
Unique values:	3		
Missing values:	0		
Min:	0.00		
Mean:	0.47		
Max:	1.00		
Std. Dev.:	0.50		
Skew:	0.13		

Value	Label	Freq.	Percent
0	No	9274	52.8%
1	Yes	8163	46.5%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STA_SCORE19
Type: Numeric
Variable label: STA question 19 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.55
Max: 1.00
Std. Dev.: 0.50
Skew: -0.19

Value	Label	Freq.	Percent
0	No	7878	44.9%
1	Yes	9559	54.5%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE20
Type: Numeric
Variable label: STA question 20 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.48
Max: 1.00
Std. Dev.: 0.50
Skew: 0.08

Value	Label	Freq.	Percent
0	No	9057	51.6%

1	Yes	8380	47.7%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STA_SCORE21
Type: Numeric
Variable label: STA question 21 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.76
Max: 1.00
Std. Dev.: 0.43
Skew: -1.19

Value	Label	Freq.	Percent
0	No	4268	24.3%
1	Yes	13169	75.0%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	1	1	1	1

Name: STA_SCORE22
Type: Numeric
Variable label: STA question 22 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.46
Max: 1.00
Std. Dev.: 0.50
Skew: 0.17

Value	Label	Freq.	Percent
0	No	9467	53.9%
1	Yes	7970	45.4%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STA_SCORE23
Type: Numeric
Variable label: STA question 23 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.67
Max: 1.00
Std. Dev.: 0.47
Skew: -0.75

Value	Label	Freq.	Percent
0	No	5670	32.3%
1	Yes	11767	67.0%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE24
Type: Numeric
Variable label: STA question 24 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.48
Max: 1.00
Std. Dev.: 0.50
Skew: 0.06

Value	Label	Freq.	Percent
0	No	8993	51.2%
1	Yes	8444	48.1%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STA_SCORE25
Type: Numeric
Variable label: STA question 25 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.58
Max: 1.00
Std. Dev.: 0.49
Skew: -0.31

Value	Label	Freq.	Percent
0	No	7394	42.1%
1	Yes	10043	57.2%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE26
Type: Numeric
Variable label: STA question 26 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.48
Max: 1.00
Std. Dev.: 0.50
Skew: 0.06

Value	Label	Freq.	Percent
0	No	8997	51.3%
1	Yes	8440	48.1%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
-----	-----	-----	-----	-----

0 0 0 0 1

Name: STA_SCORE27
Type: Numeric
Variable label: STA question 27 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.61
Max: 1.00
Std. Dev.: 0.49
Skew: -0.44

Value	Label	Freq.	Percent
0	No	6836	38.9%
1	Yes	10601	60.4%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STA_SCORE28
Type: Numeric
Variable label: STA question 28 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.46
Max: 1.00
Std. Dev.: 0.50
Skew: 0.15

Value	Label	Freq.	Percent
0	No	9380	53.4%
1	Yes	8057	45.9%
9999	Missing	117	0.7%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name:	STA_SCORE29				
Type:	Numeric				
Variable label:	STA question 29 answered correctly				
Unique values:	3				
Missing values:	0				
Min:	0.00				
Mean:	0.58				
Max:	1.00				
Std. Dev.:	0.49				
Skew:	-0.33				
Value	Label	Freq.	Percent		
0	No	7282	41.5%		
1	Yes	10155	57.9%		
9999	Missing	117	0.7%		
Percentiles:					
	10%	25%	50%	75%	90%
	0	0	1	1	1

Name:	STA_SCORE30				
Type:	Numeric				
Variable label:	STA question 30 answered correctly				
Unique values:	3				
Missing values:	0				
Min:	0.00				
Mean:	0.63				
Max:	1.00				
Std. Dev.:	0.48				
Skew:	-0.53				
Value	Label	Freq.	Percent		
0	No	6478	36.9%		
1	Yes	10959	62.4%		
9999	Missing	117	0.7%		
Percentiles:					
	10%	25%	50%	75%	90%
	0	0	1	1	1

Name:	STA_FEWITEMS			
Type:	Numeric			
Variable label:	Student answered fewer than five items on pretest			
Unique values:	2			
Missing values:	0			
Min:	0.00			
Mean:	0.06			
Max:	1.00			
Std. Dev.:	0.23			
Skew:	3.84			

Value	Label	Freq.	Percent	
0	No	16563	94.4%	
1	Yes	991	5.6%	

Percentiles:				
10%	25%	50%	75%	90%
0	0	0	0	0

Name:	STA_NMISS			
Type:	Numeric			
Variable label:	Number of missing responses to pretest			
Unique values:	30			
Missing values:	0			
Min:	0.00			
Mean:	2.55			
Max:	30.00			
Std. Dev.:	7.16			
Skew:	3.25			

Value	Label	Freq.	Percent	
0		12923	73.6%	
1		1312	7.5%	
2		546	3.1%	
3		277	1.6%	
4		286	1.6%	
All other values		1981	11.3%	

Percentiles:				
10%	25%	50%	75%	90%
0	0	0	0	7

Name:	STA_IRTSCORE				
Type:	Numeric				
Variable label:	Pretest IRT score (Weight Likelihood Estimate)				
Unique values:	12,827				
Missing values:	991				
Min:	-4.14				
Mean:	0.14				
Max:	2.92				
Std. Dev.:	1.17				
Skew:	0.50				
Value	Label	Freq.	Percent		
-4.1374749		1	0.0%		
-3.1755745		1	0.0%		
-3.1755744		1	0.0%		
-2.9912974		1	0.0%		
-2.6675515		1	0.0%		
All other values		17548	100.0%		
Percentiles:					
	10%	25%	50%	75%	90%
	-1.1910337	-.78263578	-.10937558	-.10937558	2.2825929

Name:	STA_SE_IRTSCORE				
Type:	Numeric				
Variable label:	Standard error (SE) for pretest IRT score				
Unique values:	12,825				
Missing values:	991				
Min:	0.20				
Mean:	0.40				
Max:	1.65				
Std. Dev.:	0.27				
Skew:	1.85				
Value	Label	Freq.	Percent		
.20476357		1	0.0%		
.20476358		1	0.0%		
.20476397		1	0.0%		
.20476402		1	0.0%		
.20476408		1	0.0%		
All other values		17548	100.0%		
Percentiles:					
	10%	25%	50%	75%	90%
	.23196904	.23971432	.26829655	.26829655	1.0475498

Name: STA_TOTALSCORE
Type: Numeric
Variable label: Total pretest score, calculated as the sum of all STA_SCORE values
Unique values: 32
Missing values: 991
Min: 0.00
Mean: 20.30
Max: 30.00
Std. Dev.: 7.39
Skew: -0.25

Value	Label	Freq.	Percent
0		1	0.0%
1		3	0.0%
2		10	0.1%
3		26	0.1%
4		48	0.3%
All other values		17373	99.0%

Percentiles:

10%	25%	50%	75%	90%
10	14	21	21	30

Name: STA_PROPCORRECTSCORE
Type: Numeric
Variable label: Proportion of pretest questions answered correctly
Unique values: 32
Missing values: 991
Min: 0.00
Mean: 0.68
Max: 1.00
Std. Dev.: 0.25
Skew: -0.25

Value	Label	Freq.	Percent
0		1	0.0%
.03333333		3	0.0%
.06666667		10	0.1%
.1		26	0.1%
.13333333		48	0.3%
All other values		17373	99.0%

Percentiles:

10%	25%	50%	75%	90%
.33333333	.46666667	.7	.7	1

Name:	STA_NOTE		
Type:	String		
Variable label:	Note about whether any items were excluded from the scores		
Unique values:	1		
Missing values:	0		
Value	Label	Freq.	Percent
All items included in Total, PropCorrect, and IRT scores		17554	100.0%

Name:	STB01		
Type:	Numeric		
Variable label:	1. Solve $(x - 2)(x - 3) = 0$		
Unique values:	6		
Missing values:	0		
Min:	1.00		
Mean:	1.43		
Max:	4.00		
Std. Dev.:	0.89		
Skew:	1.99		
Value	Label	Freq.	Percent
1	$x = 2$ and $x = 3$	12320	70.2%
2	$x = 4$ and $X = 6$	1545	8.8%
3	$x = -4$ and $x = -6$	945	5.4%
4	$x = -2$ and $x = -3$	1134	6.5%
9998	Multiple responses	7	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	3

Name:	STB02		
Type:	Numeric		

Variable label: 2. Find a positive integer x so that the square of x minus twice x is 35.
 Unique values: 6
 Missing values: 0
 Min: 1.00
 Mean: 3.46
 Max: 4.00
 Std. Dev.: 0.89
 Skew: -1.33

Value	Label	Freq.	Percent
1	4	547	3.1%
2	5	2711	15.4%
3	6	1441	8.2%
4	7	11078	63.1%
9998	Multiple responses	10	0.1%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
2	3	4	4	4

Name: STB03
 Type: Numeric
 Variable label: 3. Solve: $x^2 - 2x - 8 = 0$
 Unique values: 7
 Missing values: 0
 Min: 1.00
 Mean: 1.98
 Max: 4.00
 Std. Dev.: 0.79
 Skew: 0.85

Value	Label	Freq.	Percent
1	$x = 2$ and $x = -4$	4065	23.2%
2	$x = -2$ and $x = 4$	9134	52.0%
3	$x = -2$ and $x = 6$	1623	9.2%
4	$x = 6$ and $x = -8$	1070	6.1%
9997	Illegible response	3	0.0%
All other values		1653	9.4%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	3

Name: STB04
Type: Numeric
Variable label: 4. The quadratic equation $x^2 - 2x - 3 = 0$ can be transformed into $(x - 1)^2 = a$.
 What is the value of a?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.67
Max: 4.00
Std. Dev.: 0.94
Skew: 0.07

Value	Label	Freq.	Percent
1	5	1356	7.7%
2	4	6170	35.1%
3	3	4188	23.9%
4	2	3732	21.3%
9997	Illegible response	5	0.0%
All other values		2096	11.9%

Percentiles:

10%	25%	50%	75%	90%
2	2	3	3	4

Name: STB05
Type: Numeric
Variable label: 5. Which of the following are the solutions to the equation shown above? ($3x^2 = 27$)
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.12
Max: 4.00
Std. Dev.: 0.84
Skew: 0.64

Value	Label	Freq.	Percent
1	$x = 3$ only	3422	19.5%
2	$x = 3$ and $x = -3$	8602	49.0%
3	$x = 9$ only	2590	14.8%
4	$x = 9$ and $x = -9$	1392	7.9%
9998	Multiple responses	17	0.1%
All other values		0	0.0%

Percentiles:				
10%	25%	50%	75%	90%
1	2	2	2	3

Name:	STB06		
Type:	Numeric		
Variable label:	6. What are the solutions of the quadratic equation $(x + 1)^2 = 4$		
Unique values:	7		
Missing values:	0		
Min:	1.00		
Mean:	3.07		
Max:	4.00		
Std. Dev.:	1.08		
Skew:	-0.59		
Value	Label	Freq.	Percent
1	x = 3 and x = 5	1491	8.5%
2	x = 3 and x = 1	4078	23.2%
3	x = -3 and x = -1	1968	11.2%
4	x = -3 and x = 1	8084	46.1%
9997	Illegible response	2	0.0%
All other values		1917	10.9%

Percentiles:				
10%	25%	50%	75%	90%
2	2	4	4	4

Name:	STB07		
Type:	Numeric		
Variable label:	7. Solve: $(x - 7)^2 - 8 = 0$		
Unique values:	7		
Missing values:	0		
Min:	1.00		
Mean:	2.13		
Max:	4.00		
Std. Dev.:	0.85		
Skew:	0.72		
Value	Label	Freq.	Percent
1	x = $-7 + 4\sqrt{2}$ and x = $-7 - 4\sqrt{2}$	3082	17.6%
2	x = $7 + 2\sqrt{2}$ and x = $7 - 2\sqrt{2}$	8448	48.1%

3	x = 9 and x = 1	2084	11.9%
4	x = 7 and x = 3	1520	8.7%
9997	Illegible response	4	0.0%
All other values		2410	13.7%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: STB08
Type: Numeric
Variable label: 8. The equation $x^2 - 10x + 1 = 0$ has the same roots as which of the following equations?

Unique values:	7		
Missing values:	0		
Min:	1.00		
Mean:	2.44		
Max:	4.00		
Std. Dev.:	1.10		
Skew:	-0.18		
Value	Label	Freq.	Percent
1	$x^2 + 10x - 1 = 0$	4825	27.5%
2	$x^2 - 25x - 10 = 0$	1585	9.0%
3	$(x-5)^2 - 24 = 0$	6494	37.0%
4	$(x-10)^2 - 1 = 0$	2530	14.4%
9997	Illegible response	5	0.0%
All other values		2086	11.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	3	3	4

Name: STB09
Type: Numeric
Variable label: 9. Which of the following quadratic equations has the solutions shown above? ($x = \frac{-3 \pm \sqrt{69}}{2}$)
Unique values: 7
Missing values: 0
Min: 1.00

Mean: 1.82
 Max: 4.00
 Std. Dev.: 0.98
 Skew: 1.03

Value	Label	Freq.	Percent
1	$x^2 + 3x - 15 = 0$	7517	42.8%
2	$x^2 - 3x + 69 = 0$	4948	28.2%
3	$x^2 - 9x + 60 = 0$	1464	8.3%
4	$x^2 + 9x + 18 = 0$	1642	9.4%
9997	Illegible response	5	0.0%
All other values		1969	11.2%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: STB10
Type: Numeric
Variable label: 10. Solve: $4x^2 - 12x + 9 = 0$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.20
Max: 4.00
Std. Dev.: 1.27
Skew: 0.40

Value	Label	Freq.	Percent
1	$x=3/2$ only	7097	40.4%
2	$x=5.12$ and $x=0.89$	2271	12.9%
3	$x=3$ only	1993	11.4%
4	There are no solutions	4134	23.6%
9997	Illegible response	2	0.0%
All other values		2052	11.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: STB11
Type: Numeric

Variable label: 11. A rectangular picture with an area of 875 square centimeters has a height that is 10 centimeters more than the width. What is the width of the picture?

Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.19
Max: 4.00
Std. Dev.: 0.70
Skew: 0.90

Value	Label	Freq.	Percent
1	15 cm	1538	8.8%
2	25 cm	10473	59.7%
3	40 cm	2415	13.8%
4	50 cm	1051	6.0%
9997	Illegible response	3	0.0%
All other values		2068	11.8%

Percentiles:

10%	25%	50%	75%	90%
2	2	2	2	3

Name: STB12

Type: Numeric

Variable label: 12. For which of the following values of a, does the equation $x^2 + ax + 9 = 0$, have only one distinct solution?

Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.52
Max: 4.00
Std. Dev.: 0.83
Skew: -0.31

Value	Label	Freq.	Percent
1	2	2058	11.7%
2	3	4642	26.4%
3	6	7401	42.2%
4	12	1305	7.4%
9997	Illegible response	3	0.0%
All other values		2125	12.1%

Percentiles:

10%	25%	50%	75%	90%

1

2

3

3

3

Name: STB13
Type: Numeric
Variable label: 13. Which of the following equations has solutions $x = -2$ and $x = 2$?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 1.90
Max: 4.00
Std. Dev.: 1.13
Skew: 0.79

Value	Label	Freq.	Percent
1	$x^2 - 4 = 0$	8687	49.5%
2	$x^2 + 4 = 0$	2160	12.3%
3	$(x-2)^2 = 0$	2688	15.3%
4	$x^2 + 2x + 2 = 0$	2193	12.5%
9998	Multiple responses	37	0.2%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	4

Name: STB14
Type: Numeric
Variable label: 14. Consider the equation $ax^2 + bx + c = 0$. If $a = 1$, $b = -11a$, and $c = -2b + 6$, which of the following are solutions of the equation?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.41
Max: 4.00
Std. Dev.: 0.91
Skew: 0.32

Value	Label	Freq.	Percent
1	$x=2$ and $x=9$	2082	11.9%
2	$x=4$ and $x=7$	6947	39.6%
3	$x=7$ and $x=11$	3661	20.9%
4	$x=11$ and $x=28$	2304	13.1%
9997	Illegible response	3	0.0%

All other values 2553 14.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: STB15
Type: Numeric
Variable label: 15. Completing the square of the equation $2x^2 - 6x + 7 = 0$ results in
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.07
Max: 4.00
Std. Dev.: 0.92
Skew: 0.78

Value	Label	Freq.	Percent
1	$(x-6)^2 + 7 = 0$	4169	23.7%
2	$(x-3)^2 + 2 = 0$	7747	44.1%
3	$(x-6)^2 + 10 = 0$	1566	8.9%
4	$(x-3)^2 + 16 = 0$	1860	10.6%
9997	Illegible response	2	0.0%
All other values		2205	12.6%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: STB16
Type: Numeric
Variable label: 16. Solve: $x^2 + 5x - 14 = 0$
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.10
Max: 4.00
Std. Dev.: 0.88
Skew: 0.76

Value	Label	Freq.	Percent
1	$x=-2$ and $x=7$	3645	20.8%

2	x=-7 and x=2	8411	47.9%
3	x=-7 and x=-2	1779	10.1%
4	x=2 and x=7	1715	9.8%
9997	Illegible response	4	0.0%
All other values		1992	11.3%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	4

Name: STB17
Type: Numeric
Variable label: 17. If the sum of twice x and one, times the sum of x and 2 is 4, what is the value of x ?
Unique values: 6
Missing values: 0
Min: 1.00
Mean: 2.48
Max: 4.00
Std. Dev.: 0.90
Skew: -0.26

Value	Label	Freq.	Percent
1	-3/2 + sqrt(39)/2 and -3/2 - sqrt(39)/2	2641	15.0%
2	-3/2 - sqrt(32)/2 only	3772	21.5%
3	-5/4 + sqrt(41)/4 and -5/4 - sqrt(41)/4	6587	37.5%
4	-5/4 - sqrt(41)/4 only	1482	8.4%
9998	Multiple responses	4	0.0%
All other values		0	0.0%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: STB18
Type: Numeric
Variable label: 18. $x^2 - x - 20 = (x + a)(x + b)$. If $a < b$, what are the values of a and b ?
Unique values: 7

Missing values: 0
 Min: 1.00
 Mean: 2.72
 Max: 4.00
 Std. Dev.: 0.99
 Skew: -0.48

Value	Label	Freq.	Percent
1	a=-20 and b=-1	2574	14.7%
2	a=-20 and b=0	2299	13.1%
3	a=-5 and b=4	6821	38.9%
4	a=-4 and b=5	3290	18.7%
9997	Illegible response	5	0.0%
All other values		2553	14.5%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: STB19

Type: Numeric

Variable label: 19. A rectangle has length $x + 4$, width $x + 3$, and area 72. What is the perimeter of the rectangle?

Unique values: 7

Missing values: 0

Min: 1.00

Mean: 2.29

Max: 4.00

Std. Dev.: 0.75

Skew: 0.54

Value	Label	Freq.	Percent
1	72	1525	8.7%
2	34	8657	49.3%
3	18	3653	20.8%
4	11	1134	6.5%
9997	Illegible response	5	0.0%
All other values		2568	14.6%

Percentiles:

10%	25%	50%	75%	90%
1	2	2	2	3

Name:	STB20				
Type:	Numeric				
Variable label:	20. A rectangular picture frame has a border of width x centimeters and inner dimensions of 30 centimeters and 20 centimeters as shown. If the area of the shaded rectangle is half the area of the entire region enclosed by the frame, what is the value of x ?				
Unique values:	7				
Missing values:	0				
Min:	1.00				
Mean:	2.56				
Max:	4.00				
Std. Dev.:	1.27				
Skew:	-0.08				
Value	Label	Freq.	Percent		
1	10 cm	4761	27.1%		
2	8 cm	2248	12.8%		
3	6 cm	2321	13.2%		
4	5 cm	5373	30.6%		
9997	Illegible response	4	0.0%		
All other values		2828	16.1%		
Percentiles:					
	10%	25%	50%	75%	90%
	1	1	3	3	4

Name:	STB21			
Type:	Numeric			
Variable label:	21. The product of two consecutive integers is 42. If n is one of the integers, which of the following equations can we use to find n ?			
Unique values:	7			
Missing values:	0			
Min:	1.00			
Mean:	2.78			
Max:	4.00			
Std. Dev.:	1.23			
Skew:	-0.30			
Value	Label	Freq.	Percent	
1	$n^2 = 42$	3321	18.9%	
2	$n^2 - n + 42 = 0$	3350	19.1%	
3	$n^2 + n = 0$	1632	9.3%	
4	$n^2 + n - 42 = 0$	6710	38.2%	
9997	Illegible response	3	0.0%	

All other values 2519 14.4%

Percentiles:					
	10%	25%	50%	75%	90%
	1	2	3	3	4

Name: STB22
Type: Numeric
Variable label: 22. A rectangular piece of cardboard with dimensions 10 centimeters by 6 centimeters has squares of side x centimeters cut from each corner, as shown in the figure. The piece of cardboard is folded along the dotted lines to create a box without a top. Which of the following equations can be used to find the volume, V , in cubic centimeters, of the box?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.24
Max: 4.00
Std. Dev.: 0.87
Skew: 0.43

Value	Label	Freq.	Percent
1	$V = x(6-x)(10-x)$	2725	15.5%
2	$V = x(6-2x)(10-2x)$	7014	40.0%
3	$V = 2x(x-6)(x-10)$	3254	18.5%
4	$V = 2x(2x-6)(2x-10)$	1479	8.4%
9997	Illegible response	6	0.0%
All other values		3066	17.5%

Percentiles:					
	10%	25%	50%	75%	90%
	1	2	2	2	4

Name: STB23
Type: Numeric
Variable label: 23. What is the value of x if the shaded area in the figure is 200 ?
Unique values: 7
Missing values: 0
Min: 1.00

Mean: 3.03
 Max: 4.00
 Std. Dev.: 0.82
 Skew: -0.92

Value	Label	Freq.	Percent
1	5	1189	6.8%
2	14	1222	7.0%
3	15	8381	47.7%
4	25	4054	23.1%
9997	Illegible response	5	0.0%
All other values		2689	15.3%

Percentiles:

10%	25%	50%	75%	90%
2	3	3	3	4

Name: STB24

Type: Numeric

Variable label: 24. A rectangle is 6 units long and 5 units wide, as shown above. A portion of the rectangle is covered by a square that lies entirely within the rectangle. An area of 14 square units of the rectangle is left uncovered by the square. What is the length of a side of the square?

Unique values: 7

Missing values: 0

Min: 1.00

Mean: 2.57

Max: 4.00

Std. Dev.: 0.90

Skew: -0.24

Value	Label	Freq.	Percent
1	3	2061	11.7%
2	sqrt(14)	3978	22.7%
3	4	6313	36.0%
4	16	1992	11.3%
9997	Illegible response	6	0.0%
All other values		3192	18.2%

Percentiles:

10%	25%	50%	75%	90%
1	2	3	3	4

Name: STB25
Type: Numeric
Variable label: 25. There is a rectangular field 5 meters long and 10 meters wide, as shown above. There are two roads with the same width, x , through the field, perpendicular to each other. The area of the shaded region is 36 square meters. What is the value of x ?
Unique values: 7
Missing values: 0
Min: 1.00
Mean: 2.23
Max: 4.00
Std. Dev.: 1.09
Skew: 0.30

Value	Label	Freq.	Percent
1	1 m	4853	27.6%
2	2 m	3730	21.2%
3	4 m	3395	19.3%
4	5 m	2411	13.7%
9997	Illegible response	7	0.0%
All other values		3144	17.9%

Percentiles:

10%	25%	50%	75%	90%
1	1	2	2	4

Name: STB_SCORE01
Type: Numeric
Variable label: STB question 1 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.71
Max: 1.00
Std. Dev.: 0.45
Skew: -0.92

Value	Label	Freq.	Percent
0	No	5077	28.9%
1	Yes	12320	70.2%

9999 Missing 157 0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: **STB_SCORE02**
Type: Numeric
Variable label: STB question 2 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.64
Max: 1.00
Std. Dev.: 0.48
Skew: -0.57

Value	Label	Freq.	Percent
0	No	6319	36.0%
1	Yes	11078	63.1%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: **STB_SCORE03**
Type: Numeric
Variable label: STB question 3 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.53
Max: 1.00
Std. Dev.: 0.50
Skew: -0.10

Value	Label	Freq.	Percent
0	No	8263	47.1%
1	Yes	9134	52.0%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STB_SCORE04
Type: Numeric
Variable label: STB question 4 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.35
Max: 1.00
Std. Dev.: 0.48
Skew: 0.61

Value	Label	Freq.	Percent
0	No	11227	64.0%
1	Yes	6170	35.1%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE05
Type: Numeric
Variable label: STB question 5 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.49
Max: 1.00
Std. Dev.: 0.50
Skew: 0.02

Value	Label	Freq.	Percent
0	No	8795	50.1%
1	Yes	8602	49.0%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
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0 0 0 0 1

Name: STB_SCORE06
Type: Numeric
Variable label: STB question 6 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.46
Max: 1.00
Std. Dev.: 0.50
Skew: 0.14

Value	Label	Freq.	Percent
0	No	9313	53.1%
1	Yes	8084	46.1%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE07
Type: Numeric
Variable label: STB question 7 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.49
Max: 1.00
Std. Dev.: 0.50
Skew: 0.06

Value	Label	Freq.	Percent
0	No	8949	51.0%
1	Yes	8448	48.1%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE08
Type: Numeric
Variable label: STB question 8 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.37
Max: 1.00
Std. Dev.: 0.48
Skew: 0.52

Value	Label	Freq.	Percent
0	No	10903	62.1%
1	Yes	6494	37.0%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE09
Type: Numeric
Variable label: STB question 9 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.43
Max: 1.00
Std. Dev.: 0.50
Skew: 0.27

Value	Label	Freq.	Percent
0	No	9880	56.3%
1	Yes	7517	42.8%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE10
Type: Numeric
Variable label: STB question 10 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.41
Max: 1.00
Std. Dev.: 0.49
Skew: 0.37

Value	Label	Freq.	Percent
0	No	10300	58.7%
1	Yes	7097	40.4%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE11
Type: Numeric
Variable label: STB question 11 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.60
Max: 1.00
Std. Dev.: 0.49
Skew: -0.42

Value	Label	Freq.	Percent
0	No	6924	39.4%
1	Yes	10473	59.7%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	1	1	1

Name: STB_SCORE12
Type: Numeric

Variable label: STB question 12 answered correctly
 Unique values: 3
 Missing values: 0
 Min: 0.00
 Mean: 0.43
 Max: 1.00
 Std. Dev.: 0.49
 Skew: 0.30

Value	Label	Freq.	Percent
0	No	9996	56.9%
1	Yes	7401	42.2%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE13
 Type: Numeric
 Variable label: STB question 13 answered correctly
 Unique values: 3
 Missing values: 0
 Min: 0.00
 Mean: 0.50
 Max: 1.00
 Std. Dev.: 0.50
 Skew: 0.00

Value	Label	Freq.	Percent
0	No	8710	49.6%
1	Yes	8687	49.5%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE14
 Type: Numeric
 Variable label: STB question 14 answered correctly
 Unique values: 3

Missing values: 0
Min: 0.00
Mean: 0.40
Max: 1.00
Std. Dev.: 0.49
Skew: 0.41

Value	Label	Freq.	Percent
0	No	10450	59.5%
1	Yes	6947	39.6%
9999	Missing	157	0.9%

Percentiles:				
10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE15
Type: Numeric
Variable label: STB question 15 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.45
Max: 1.00
Std. Dev.: 0.50
Skew: 0.22

Value	Label	Freq.	Percent
0	No	9650	55.0%
1	Yes	7747	44.1%
9999	Missing	157	0.9%

Percentiles:				
10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE16
Type: Numeric
Variable label: STB question 16 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00

Mean: 0.48
Max: 1.00
Std. Dev.: 0.50
Skew: 0.07

Value	Label	Freq.	Percent
0	No	8986	51.2%
1	Yes	8411	47.9%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE17
Type: Numeric
Variable label: STB question 17 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.38
Max: 1.00
Std. Dev.: 0.49
Skew: 0.50

Value	Label	Freq.	Percent
0	No	10810	61.6%
1	Yes	6587	37.5%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE18
Type: Numeric
Variable label: STB question 18 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.39
Max: 1.00

Std. Dev.:	0.49		
Skew:	0.44		
Value	Label	Freq.	Percent
0	No	10576	60.2%
1	Yes	6821	38.9%
9999	Missing	157	0.9%

Percentiles:				
10%	25%	50%	75%	90%
0	0	0	0	1

Name:	STB_SCORE19		
Type:	Numeric		
Variable label:	STB question 19 answered correctly		
Unique values:	3		
Missing values:	0		
Min:	0.00		
Mean:	0.50		
Max:	1.00		
Std. Dev.:	0.50		
Skew:	0.01		
Value	Label	Freq.	Percent
0	No	8740	49.8%
1	Yes	8657	49.3%
9999	Missing	157	0.9%

Percentiles:				
10%	25%	50%	75%	90%
0	0	0	0	1

Name:	STB_SCORE20		
Type:	Numeric		
Variable label:	STB question 20 answered correctly		
Unique values:	3		
Missing values:	0		
Min:	0.00		
Mean:	0.31		
Max:	1.00		
Std. Dev.:	0.46		
Skew:	0.83		

Value	Label	Freq.	Percent
0	No	12024	68.5%
1	Yes	5373	30.6%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE21
Type: Numeric
Variable label: STB question 21 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.39
Max: 1.00
Std. Dev.: 0.49
Skew: 0.47

Value	Label	Freq.	Percent
0	No	10687	60.9%
1	Yes	6710	38.2%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE22
Type: Numeric
Variable label: STB question 22 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.40
Max: 1.00
Std. Dev.: 0.49
Skew: 0.39

Value	Label	Freq.	Percent
0	No	10383	59.1%

1	Yes	7014	40.0%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE23
Type: Numeric
Variable label: STB question 23 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.48
Max: 1.00
Std. Dev.: 0.50
Skew: 0.07

Value	Label	Freq.	Percent
0	No	9016	51.4%
1	Yes	8381	47.7%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE24
Type: Numeric
Variable label: STB question 24 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.36
Max: 1.00
Std. Dev.: 0.48
Skew: 0.57

Value	Label	Freq.	Percent
0	No	11084	63.1%
1	Yes	6313	36.0%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_SCORE25
Type: Numeric
Variable label: STB question 25 answered correctly
Unique values: 3
Missing values: 0
Min: 0.00
Mean: 0.28
Max: 1.00
Std. Dev.: 0.45
Skew: 0.99

Value	Label	Freq.	Percent
0	No	12544	71.5%
1	Yes	4853	27.6%
9999	Missing	157	0.9%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	1

Name: STB_FEWITEMS
Type: Numeric
Variable label: Student answered fewer than five items on posttest
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.08
Max: 1.00
Std. Dev.: 0.28
Skew: 3.03

Value	Label	Freq.	Percent
0	No	16103	91.7%
1	Yes	1451	8.3%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: STB_NMISS
Type: Numeric
Variable label: Number of missing responses to posttest
Unique values: 26
Missing values: 0
Min: 0.00
Mean: 3.29
Max: 25.00
Std. Dev.: 7.16
Skew: 2.32

Value	Label	Freq.	Percent
0		11708	66.7%
1		1304	7.4%
2		655	3.7%
3		346	2.0%
4		322	1.8%
All other values		2987	17.0%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	14

Name: STB_IRTSCORE
Type: Numeric
Variable label: Posttest IRT score (Weight Likelihood Estimate)
Unique values: 14,179
Missing values: 1,451
Min: -3.57
Mean: 0.42
Max: 5.41
Std. Dev.: 1.47
Skew: 1.12

Value	Label	Freq.	Percent
-3.5667288		3	0.0%
-3.45754		3	0.0%
-3.4360162		6	0.0%
-3.4116974		3	0.0%
-3.0451205		1	0.0%

All other values 17537 99.9%

Percentiles:

10%	25%	50%	75%	90%
-1.0023126	-.60479683	-.03195557	-.03195557	2.6543264

Name: STB_SE_IRTSCORE
Type: Numeric
Variable label: Standard error (SE) for posttest IRT score
Unique values: 14,175
Missing values: 1,451
Min: 0.36
Mean: 0.50
Max: 2.22
Std. Dev.: 0.26
Skew: 3.22

Value	Label	Freq.	Percent
.35891485		1	0.0%
.3589149		1	0.0%
.35891518		1	0.0%
.35891532		1	0.0%
.35891554		1	0.0%
All other values		17548	100.0%

Percentiles:

10%	25%	50%	75%	90%
.36690355	.37657829	.40657683	.40657683	.72273278

Name: STB_TOTALSCORE
Type: Numeric
Variable label: Total posttest score, calculated as the sum of all STB_SCORE values
Unique values: 26
Missing values: 1,451
Min: 0.00
Mean: 11.78
Max: 24.00
Std. Dev.: 6.30
Skew: 0.52

Value	Label	Freq.	Percent
0		15	0.1%

1		52	0.3%
2		197	1.1%
3		415	2.4%
4		737	4.2%
All other values		15086	85.9%

Percentiles:

10%	25%	50%	75%	90%
5	7	10	10	22

Name: STB_PROPCORRECTSCORE

Type: Numeric
Variable label: Proportion of posttest questions answered correctly
Unique values: 26
Missing values: 1,451
Min: 0.00
Mean: 0.49
Max: 1.00
Std. Dev.: 0.26
Skew: 0.52

Value	Label	Freq.	Percent
0		15	0.1%
.04166667		52	0.3%
.08333333		197	1.1%
.125		415	2.4%
.16666667		737	4.2%
All other values		15086	85.9%

Percentiles:

10%	25%	50%	75%	90%
.20833333	.29166667	.41666667	.41666667	.91666667

Name: STB_NOTE

Type: String
Variable label: Note about whether any items were excluded from the scores
Unique values: 1
Missing values: 0

Value	Label	Freq.	Percent
Item 20 excluded from Total, PropCorrect, and		17554	100.0%

IRT scores

Name: CLASS_PRE_PINT
Type: Numeric
Variable label: Average of PRE_PINT for all peers in class, excluding individual student
Unique values: 4,309
Missing values: 0
Min: 1.67
Mean: 2.61
Max: 3.58
Std. Dev.: 0.34
Skew: -0.05

Value	Label	Freq.	Percent
1.671488		1	0.0%
1.701632		1	0.0%
1.718137		4	0.0%
1.723986		1	0.0%
1.732094		1	0.0%
All other values		17545	99.9%

Percentiles:				
10%	25%	50%	75%	90%
2.159722	2.371795	2.605904	2.605904	3.047619

Name: CLASS_PRE_GENSELF EFF
Type: Numeric
Variable label: Average of PRE_GENSELF EFF for all peers in class, excluding individual student
Unique values: 6,330
Missing values: 0
Min: 1.20
Mean: 2.55
Max: 3.70
Std. Dev.: 0.44
Skew: -0.47

Value	Label	Freq.	Percent
1.2		2	0.0%
1.228571		2	0.0%
1.242857		1	0.0%
1.257143		1	0.0%
1.271429		9	0.1%
All other values		17538	99.9%

Percentiles:

	10%	25%	50%	75%	90%
	1.857988	2.295455	2.616333	2.616333	3.058333

Name: CLASS_PRE_TEST
Type: Numeric
Variable label: Average of PRE_TEST for all peers in class, excluding individual student
Unique values: 15,029
Missing values: 0
Min: 164.38
Mean: 199.44
Max: 245.56
Std. Dev.: 20.66
Skew: 0.37

Value	Label	Freq.	Percent
164.3811		1	0.0%
164.4026		1	0.0%
164.4177		1	0.0%
164.4496		1	0.0%
164.4549		1	0.0%
All other values		17548	100.0%

Percentiles:

	10%	25%	50%	75%	90%
	175.2421	181.0065	195.45	195.45	230.9186

Name: CLASS_SA_IMMIG_I
Type: Numeric
Variable label: Average of SA_IMMIG_I for all peers in class, excluding individual student
Unique values: 472
Missing values: 0
Min: -0.00
Mean: 0.05
Max: 1.00
Std. Dev.: 0.12
Skew: 3.85

Value	Label	Freq.	Percent
-9.31e-10		3	0.0%
-4.56e-10		1	0.0%

0	10593	60.3%
2.33e-10	1	0.0%
2.87e-10	3	0.0%
All other values	6952	39.6%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	.1571429

Name: CLASS_SA_FEMALE
Type: Numeric
Variable label: Average of SA_FEMALE for all peers in class, excluding individual student
Unique values: 810
Missing values: 0
Min: 0.00
Mean: 0.51
Max: 1.00
Std. Dev.: 0.15
Skew: -0.10

Value	Label	Freq.	Percent
0		380	2.2%
3.73e-09		1	0.0%
5.96e-09		1	0.0%
.0039526		1	0.0%
.0326797		2	0.0%
All other values		17167	97.8%

Percentiles:

10%	25%	50%	75%	90%
.3571429	.4444444	.5006859	.5006859	.65

Name: CLASS_SA_PARED
Type: Numeric
Variable label: Average of SA_PARED for all peers in class, excluding individual student
Unique values: 2,625
Missing values: 0
Min: 5.00
Mean: 13.70
Max: 18.00
Std. Dev.: 1.75

Skew:	-0.53		
Value	Label	Freq.	Percent
5		2	0.0%
5.222222		1	0.0%
5.604167		1	0.0%
5.666667		2	0.0%
5.888889		5	0.0%
All other values		17534	99.9%

Percentiles:

10%	25%	50%	75%	90%
11.36	12.85185	13.76608	13.76608	15.875

Name: CLASS_SA_HOMEPOS_IRT
Type: Numeric
Variable label: Average of SA_HOMEPOS_IRT for all peers in class, excluding individual student
Unique values: 16,819
Missing values: 0
Min: -1.79
Mean: 0.00
Max: 1.55
Std. Dev.: 0.47
Skew: 0.25

Value	Label	Freq.	Percent
-1.785366		1	0.0%
-1.783294		1	0.0%
-1.771492		1	0.0%
-1.76911		1	0.0%
-1.767887		1	0.0%
All other values		17548	100.0%

Percentiles:

10%	25%	50%	75%	90%
-.5663746	-.3053344	-.0131706	-.0131706	.6406012

Name: PRE_PINT
Type: Numeric
Variable label: Student's personal interest in mathematics, based on their previous year teacher, as recorded in the pre-questionn

Unique values: 14
 Missing values: 1,103
 Min: 1.00
 Mean: 2.61
 Max: 4.00
 Std. Dev.: 0.76
 Skew: -0.10

Value	Label	Freq.	Percent
1		814	4.6%
1.333333		551	3.1%
1.5		9	0.1%
1.666667		869	5.0%
2		2408	13.7%
All other values		10492	59.8%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2	2.666667	2.666667	3.666667

Name: PRE_GENSELF EFF
Type: Numeric
Variable label: Student's general self-efficacy in mathematics, based on their previous year teacher, as recorded in the pre-questionnaire

Unique values: 29
 Missing values: 1,110
 Min: 1.00
 Mean: 2.55
 Max: 4.00
 Std. Dev.: 0.83
 Skew: -0.09

Value	Label	Freq.	Percent
1		939	5.3%
1.2		603	3.4%
1.4		668	3.8%
1.5		4	0.0%
1.6		612	3.5%
All other values		14725	83.9%

Percentiles:

10%	25%	50%	75%	90%
1.4	2	2.6	2.6	3.8

Name: PRE_TEST
Type: Numeric
Variable label: Standardized version of sta_irtscore
Unique values: 12,783
Missing values: 991
Min: 108.85
Mean: 200.00
Max: 259.08
Std. Dev.: 25.00
Skew: 0.50

Value	Label	Freq.	Percent
108.8523		1	0.0%
129.3361		2	0.0%
133.2603		1	0.0%
140.1546		1	0.0%
140.3299		1	0.0%
All other values		17547	100.0%

Percentiles:

10%	25%	50%	75%	90%
171.5973	180.2942	194.6314	194.6314	245.5687

Name: POST_GENSELF EFF
Type: Numeric
Variable label: Student's general self-efficacy in mathematics, based on their current year teacher, as recorded in the post-questionnaire,
Unique values: 29
Missing values: 1,418
Min: 1.00
Mean: 2.48
Max: 4.00
Std. Dev.: 0.78
Skew: 0.06

Value	Label	Freq.	Percent
1		808	4.6%
1.2		530	3.0%
1.25		1	0.0%
1.4		568	3.2%
1.5		6	0.0%
All other values		14993	85.4%

Percentiles:

10%	25%	50%	75%	90%
1.4	2	2.4	2.4	3.6

Name: POST_PINT

Type: Numeric

Variable label: Students' personal interest in mathematics in mathematics, based on their current year teacher, as recorded in the post-questionnaire,

Unique values: 14

Missing values: 1,437

Min: 1.00

Mean: 2.63

Max: 4.00

Std. Dev.: 0.76

Skew: -0.20

Value	Label	Freq.	Percent
1		857	4.9%
1.333333		510	2.9%
1.5		2	0.0%
1.666667		740	4.2%
2		2143	12.2%
All other values		11198	63.8%

Percentiles:

10%	25%	50%	75%	90%
1.666667	2	2.666667	2.666667	3.666667

Name: POST_TEST

Type: Numeric

Variable label: Standardized version of stb_irtscore

Unique values: 14,150

Missing values: 1,451

Min: 132.33

Mean: 200.00

Max: 284.65

Std. Dev.: 25.00

Skew: 1.12

Value	Label	Freq.	Percent
132.332		3	0.0%
134.1846		3	0.0%
134.5498		6	0.0%

134.9624		3	0.0%
141.1821		1	0.0%
All other values		17537	99.9%

Percentiles:

10%	25%	50%	75%	90%
175.8425	182.5871	192.3065	192.3065	237.8846

Name: MIDDROP
Type: Numeric
Variable label: Student dropped out of study
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.01
Max: 1.00
Std. Dev.: 0.08
Skew: 12.57

Value	Label	Freq.	Percent
0	No	17445	99.4%
1	Yes	109	0.6%

Percentiles:

10%	25%	50%	75%	90%
0	0	0	0	0

Name: CONSENT_QUES_N_STU_RES
Type: Numeric
Variable label: Student consented in student resolution for questionnaires
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 1.00
Max: 1.00
Std. Dev.: 0.01
Skew: -93.67

Value	Label	Freq.	Percent
0		2	0.0%
1		17552	100.0%

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	1

Name:	CONSENT_TEST_N_STU_RES			
Type:	Numeric			
Variable label:	Student consented in student resolution for tests			
Unique values:	2			
Missing values:	0			
Min:	0.00			
Mean:	1.00			
Max:	1.00			
Std. Dev.:	0.03			
Skew:	-28.86			
Value	Label	Freq.	Percent	
0		21	0.1%	
1		17533	99.9%	

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	1

Name:	CONSENT_VIDEO_N_STU_RES			
Type:	Numeric			
Variable label:	Student consented in student resolution for videos			
Unique values:	2			
Missing values:	0			
Min:	0.00			
Mean:	1.00			
Max:	1.00			
Std. Dev.:	0.07			
Skew:	-14.53			
Value	Label	Freq.	Percent	
0		82	0.5%	
1		17472	99.5%	

Percentiles:					
	10%	25%	50%	75%	90%
	1	1	1	1	1

Name: IN_ANALYSIS_TEST
Type: Numeric
Variable label: Student in test score analysis
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.92
Max: 1.00
Std. Dev.: 0.28
Skew: -3.03

Value	Label	Freq.	Percent
0		1453	8.3%
1		16101	91.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: IN_ANALYSIS_PINT
Type: Numeric
Variable label: Student in personal interest in math analysis
Unique values: 2
Missing values: 0
Min: 0.00
Mean: 0.92
Max: 1.00
Std. Dev.: 0.28
Skew: -3.02

Value	Label	Freq.	Percent
0		1457	8.3%
1		16097	91.7%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: IN_ANALYSIS_GENSELFEEF
Type: Numeric

Variable label: Student in general self-efficacy analysis
 Unique values: 2
 Missing values: 0
 Min: 0.00
 Mean: 0.92
 Max: 1.00
 Std. Dev.: 0.27
 Skew: -3.05

Value	Label	Freq.	Percent
0		1438	8.2%
1		16116	91.8%

Percentiles:

10%	25%	50%	75%	90%
1	1	1	1	1

Name: DATE_SQA
 Type: Numeric
 Variable label: DATE variable, SAS date for student pre questionnaire
 Unique values: 190
 Missing values: 729
 Min: 21098.00
 Mean: 21321.33
 Max: 21503.00
 Std. Dev.: 93.61
 Skew: -0.23

Value	Label	Freq.	Percent
06/10/17		30	0.2%
09/10/17		29	0.2%
13/10/17		32	0.2%
18/10/17		84	0.5%
19/10/17		45	0.3%
All other values		17296	98.5%

Percentiles:

10%	25%	50%	75%	90%
31/01/18	14/02/18	23/05/18	23/05/18	13/09/18

Name: DATE_SQB
 Type: Numeric

Variable label: DATE variable, SAS date for student post questionnaire
 Unique values: 203
 Missing values: 1,076
 Min: 21125.00
 Mean: 21362.17
 Max: 21536.00
 Std. Dev.: 101.04
 Skew: -0.41

Value	Label	Freq.	Percent
02/11/17		24	0.1%
06/11/17		32	0.2%
09/11/17		49	0.3%
13/11/17		20	0.1%
14/11/17		92	0.5%
All other values		17312	98.6%

Percentiles:

10%	25%	50%	75%	90%
22/02/18	12/03/18	31/07/18	31/07/18	09/10/18

Name: DATE_STA
 Type: Numeric
 Variable label: DATE variable, SAS date for student pretest
 Unique values: 195
 Missing values: 725
 Min: 21098.00
 Mean: 21320.72
 Max: 21503.00
 Std. Dev.: 93.73
 Skew: -0.22

Value	Label	Freq.	Percent
06/10/17		30	0.2%
09/10/17		29	0.2%
13/10/17		32	0.2%
16/10/17		25	0.1%
17/10/17		19	0.1%
All other values		17311	98.6%

Percentiles:

10%	25%	50%	75%	90%
31/01/18	14/02/18	23/05/18	23/05/18	13/09/18

Name: DATE_STB
Type: Numeric
Variable label: DATE variable, SAS date for student posttest
Unique values: 203
Missing values: 1,078
Min: 21119.00
Mean: 21361.87
Max: 21536.00
Std. Dev.: 101.13
Skew: -0.41

Value	Label	Freq.	Percent
27/10/17		30	0.2%
02/11/17		24	0.1%
09/11/17		49	0.3%
13/11/17		49	0.3%
14/11/17		62	0.4%
All other values		17317	98.6%

Percentiles:

10%	25%	50%	75%	90%
21/02/18	12/03/18	31/07/18	31/07/18	09/10/18

Name: DATE_SQA_2
Type: Numeric
Variable label: Date variable, SAS date, for second section of SQA
Unique values: 18
Missing values: 16,674
Min: 21350.00
Mean: 21367.16
Max: 21437.00
Std. Dev.: 14.78
Skew: 3.48

Value	Label	Freq.	Percent
15/06/18		28	0.2%
20/06/18		25	0.1%
21/06/18		29	0.2%
22/06/18		149	0.8%
26/06/18		28	0.2%
All other values		17205	98.0%

Percentiles:

10%	25%	50%	75%	90%
22/06/18	22/06/18	29/06/18	29/06/18	10/07/18

Name:	DATE_SQA_3		
Type:	Numeric		
Variable label:	Date variable, SAS date, for third section of SQA		
Unique values:	19		
Missing values:	16,720		
Min:	21355.00		
Mean:	21367.90		
Max:	21437.00		
Std. Dev.:	14.78		
Skew:	3.57		
Value	Label	Freq.	Percent
20/06/18		25	0.1%
21/06/18		29	0.2%
22/06/18		118	0.7%
25/06/18		24	0.1%
26/06/18		28	0.2%
All other values		17213	98.1%

Percentiles:				
10%	25%	50%	75%	90%
22/06/18	26/06/18	29/06/18	29/06/18	10/07/18

Name:	DATE_SQB_2		
Type:	Numeric		
Variable label:	Date variable, SAS date, for second section of SQB		
Unique values:	27		
Missing values:	16,690		
Min:	21384.00		
Mean:	21451.74		
Max:	21482.00		
Std. Dev.:	20.50		
Skew:	-2.13		
Value	Label	Freq.	Percent
19/07/18		52	0.3%
20/07/18		4	0.0%
07/09/18		25	0.1%
10/09/18		4	0.0%
12/09/18		10	0.1%

All other values 17453 99.4%

Percentiles:

10%	25%	50%	75%	90%
12/09/18	21/09/18	27/09/18	27/09/18	15/10/18

Name: DATE_SQB_3

Type: Numeric

Variable label: Date variable, SAS date, for third section of SQB

Unique values: 28

Missing values: 16,704

Min: 21384.00

Mean: 21452.23

Max: 21482.00

Std. Dev.: 20.96

Skew: -2.04

Value	Label	Freq.	Percent
19/07/18		47	0.3%
20/07/18		9	0.1%
07/09/18		25	0.1%
10/09/18		4	0.0%
12/09/18		9	0.1%
All other values		17454	99.4%

Percentiles:

10%	25%	50%	75%	90%
11/09/18	21/09/18	27/09/18	27/09/18	17/10/18

Name: MINUTES_SQA

Type: Numeric

Variable label: Number of minutes from SQATime1 to SQATime2

Unique values: 62

Missing values: 3,063

Min: 0.00

Mean: 1558600.51

Max: 3600000.00

Std. Dev.: 553267.45

Skew: 0.23

Value	Label	Freq.	Percent
0		41	0.2%

1		3	0.0%
2		5	0.0%
3		6	0.0%
4		4	0.0%
All other values		17477	99.6%

Percentiles:

10%	25%	50%	75%	90%
15	19	25	25	40
