

**2021 STAAR
Score Distributions and
Statistics by Content Area
and Grade**

Glossary

This glossary provides definitions for the statistical terms that appear in the tables and graphs in this section ("STAAR 2021 Score Distributions and Statistics by Content Area and Grade") of Appendix B. Definitions of statistical terms and concepts in the other sections are given in

Skewness The skewness is an indicator of the shape of the score distribution. It measures the extent to which the score distribution "leans" to one side of the mean. A positive skewness indicates that the score distribution leans below the mean. A negative skewness indicates that the score distribution leans above the mean. A skewness of zero indicates that the score distribution is symmetric around the mean. It is computed using the following formula.

$$Skewness = \frac{N}{(N-1)(N-2)} \sum_{i=1}^N \frac{X_i - \bar{X}}{S_X}^3$$

Where X_i is the score for student i , \bar{X} is the mean score, S_X is the standard deviation (SD) and N is the total number of students who took the assessment.

Kurtosis The-1 (d)T Tc 0.05 Tc 0.003[T-0.005 Tc ku005 TwTc 0.00-0.00is)-6 (t)-2 (ude)-1 (nt)1BDTc 0.003

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Students
Students
Students

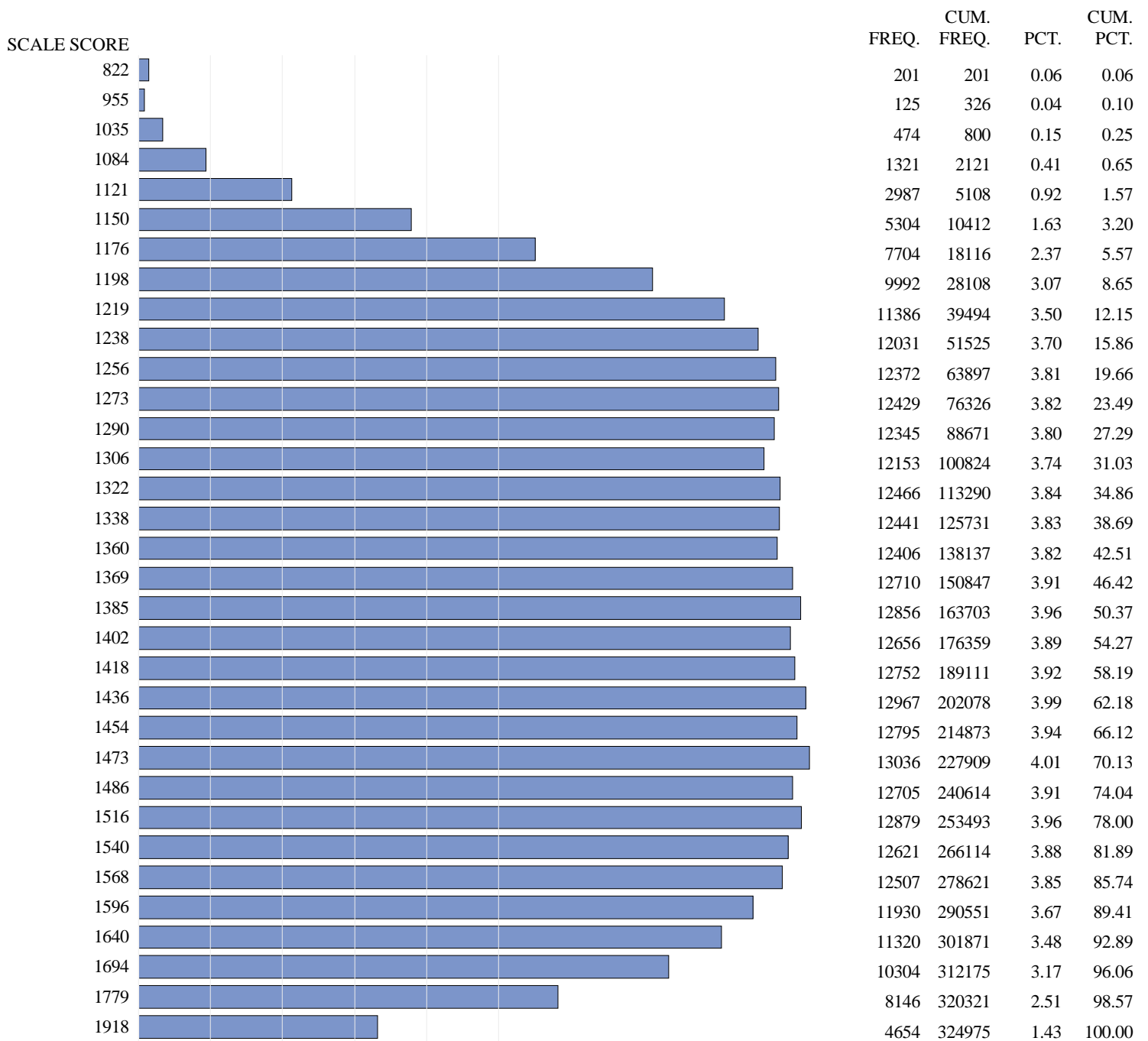
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Table B.7.3 Spring 2021 STAAR EOC Assessments
Scale Score Descriptive Statistics

Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
	396,272	3932.99	3829	3386	4778	826	590.17	348306.02	0.91	1.18
	4,511	3641.05	3608	3311	5286	658	480.63	231001.10	0.67	1.18
	415,929	4002.65	4000	4000	5421	781	575.89	331654.73	-0.09	2.04
	393,559	4080.35	4084	4831	5521	791	578.28	334410.16	0.15	0.36
	2,772	3905.03	3912	4000	5303	638	462.47	213873.89	0.09	0.55
	392,222	4116.46	4058	4469	4878	823		384994.50	0.65	0.61
Physical Science		4300.73	4290	4761						

Figure B.7.1. Spring 2021 STAAR English Grade 3 Mathematics
 Frequency Distribution of Scale Scores
 All Students



Notes:

Students who took the braille or the ASL or the paper STAAR with Embedded Supports version of the test are not included in the frequency distribution tables.

Figure B.7.2. Spring 2021 STAAR English Grade 4 Mathematics
Frequency Distribution of Scale Scores
All Students

Figure B.7.3. Spring 2021 STAAR English Grade 5 Mathematics

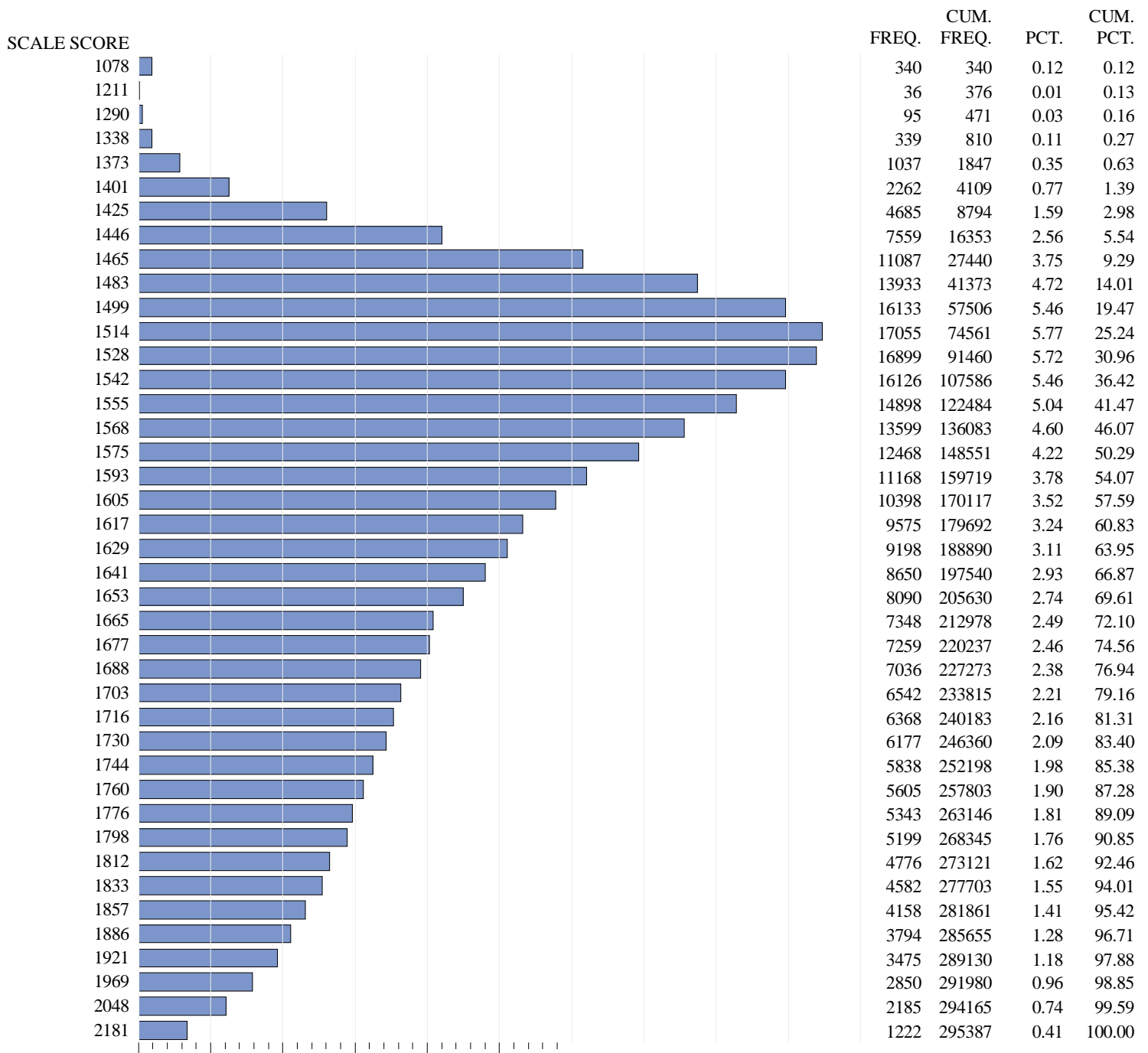
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 Frequency Distribution of Scale Scores
 All Students



Notes:

Students who took the braille or the ASL or the paper STAAR with Embedded Supports version of the test are not included in the frequency distribution tables.

Figure B.7.5. Spring 2021 STAAR English Grade 7 Mathematics
 Frequency Distribution of Scale Scores
 All Students



Notes:

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Figure B.7.9. Spring 2021 STAAR English Grade 5 Reading
 Frequency Distribution of Scale Scores
 All Students

SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
201	201	201	0.06	0.06
211	11	212	0.00	0.06
220	20	232	0.01	0.07
230	78	310	0.02	0.09
240	211	521	0.06	0.16
250	592	1113	0.18	0.33
260	1091	2204	0.33	0.66
270	2160	4364	0.65	1.31
280	3281	7645	0.99	2.30
290	4595	12240	1.38	3.68
300	5776	18016	1.74	5.42
310	6707	24723	2.02	7.44
320	7398	32121	2.23	9.66
330	7303	39424	2.20	11.86
340	7290	46714	2.19	14.06
350	7433	54147	2.24	16.29
360	7569	61716	2.28	18.57
370	7550	69266	2.27	20.84
380	7784	77050	2.34	23.18
390	8133	85183	2.45	25.63
400	8372	93555	2.52	28.15
410	8821	102376	2.65	30.80
420	9349	111725	2.81	33.62
430	10019	121744	3.01	36.63
440	10554	132298	3.18	39.81
450	11346	143644	3.41	43.22
460	12435	156079	3.74	46.96
470	13284	169363	4.00	50.96
480	14236	183599	4.28	55.24
490	15327	198926	4.61	59.85
500	16485	215411	4.96	64.81
510	17503	232914	5.27	70.08
520	18146	251060	5.46	75.54
530	18592	269652	5.59	81.13
540	18497	288149	5.57	86.70
550	17083	305232	5.14	91.84
560	13953	319185	4.20	96.04
570	9416	328601	2.83	98.87
580	3752	332353	1.13	100.00

Notes:

Students who took the braille or the ASL or the paper STAAR with Embedded Supports version of the test are not included in the frequency distribution tables.

Figure B.7.12. Spring 2021 STAAR English Grade 8 Reading
Frequency Distribution of Scale Scores
All Students

FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
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Notes:

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Figure B.7.13. Spring 2021 STAAR English Grade 4 Writing
Frequency Distribution of Scale Scores
All Students

the frequency distribution tables.

Figure B.7.14. Spring 2021 STAAR English Grade 7 Writing
Frequency Distribution of Scale Scores

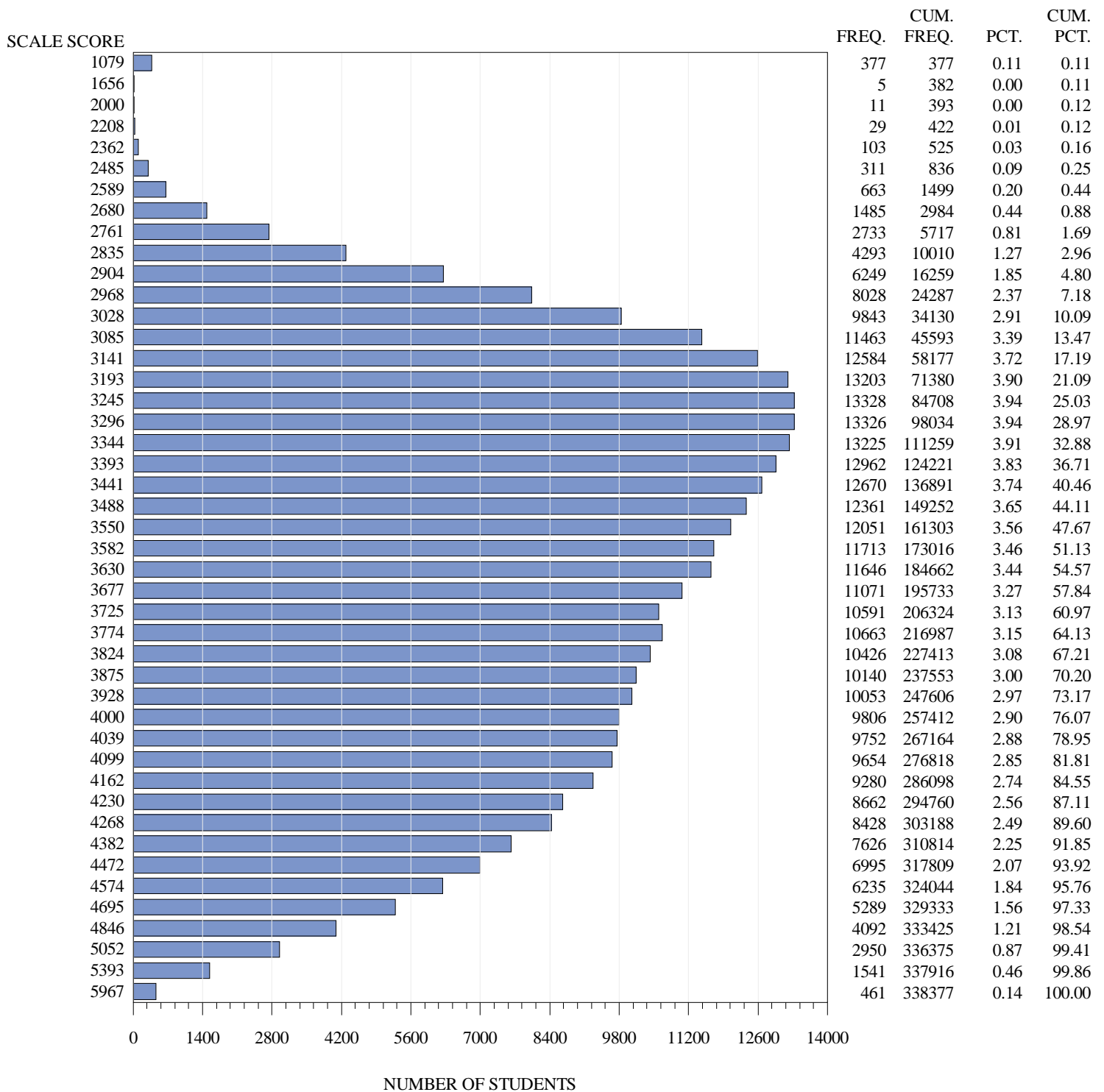
Figure B.7.15. Spring 2021 STAAR English Grade 5 Science
 Frequency Distribution of Scale Scores
 All Students

SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
1138	179	179	0.05	0.05
1682	3	182	0.00	0.05
2008	17	199	0.01	0.06
2209	52	251	0.02	0.07
2358	178	429	0.05	0.13
2478	494	923	0.15	0.27
2581	1040	1963	0.31	0.58
2672	2000	3963	0.59	1.17
2755	3169	7132	0.94	2.11
2831	4551	11683	1.35	3.46
2902	6166	17849	1.83	5.29
2969	7657	25506	2.27	7.56
3033	8986	34492	2.66	10.22
3095	10019	44511	2.97	13.19
3155	10582	55093	3.14	16.32
3213	11515	66608	3.41	19.74
3271	11906	78514	3.53	23.26
3327	12652	91166	3.75	27.01
3383	12916	104082	3.83	30.84
3440	13516	117598	4.00	34.85
3496	13815	131413	4.09	38.94
3550	14172	145585	4.20	43.14
3611	14640	160225	4.34	47.48
3671	14833	175058	4.40	51.87
3732	15154	190212	4.49	56.36
3795	15394	205606	4.56	60.92
3862	15541	221147	4.60	65.53
3932	15577	236724	4.62	70.14
4000	15405	252129	4.56	74.71
4089	15140	267269	4.49	79.19
4180	14908	282177	4.42	83.61
4282	13976	296153	4.14	87.75
4402	12824	308977	3.80	91.55
4550	10913	319890	3.23	94.79
4749	8995	328885	2.67	97.45
5075	6085	334970	1.80	99.26
5619	2513	337483	0.74	100.00

Notes:

Students who took the braille or the ASL or the paper STAAR with Embedded Supports version of the test are not included in the frequency distribution tables.

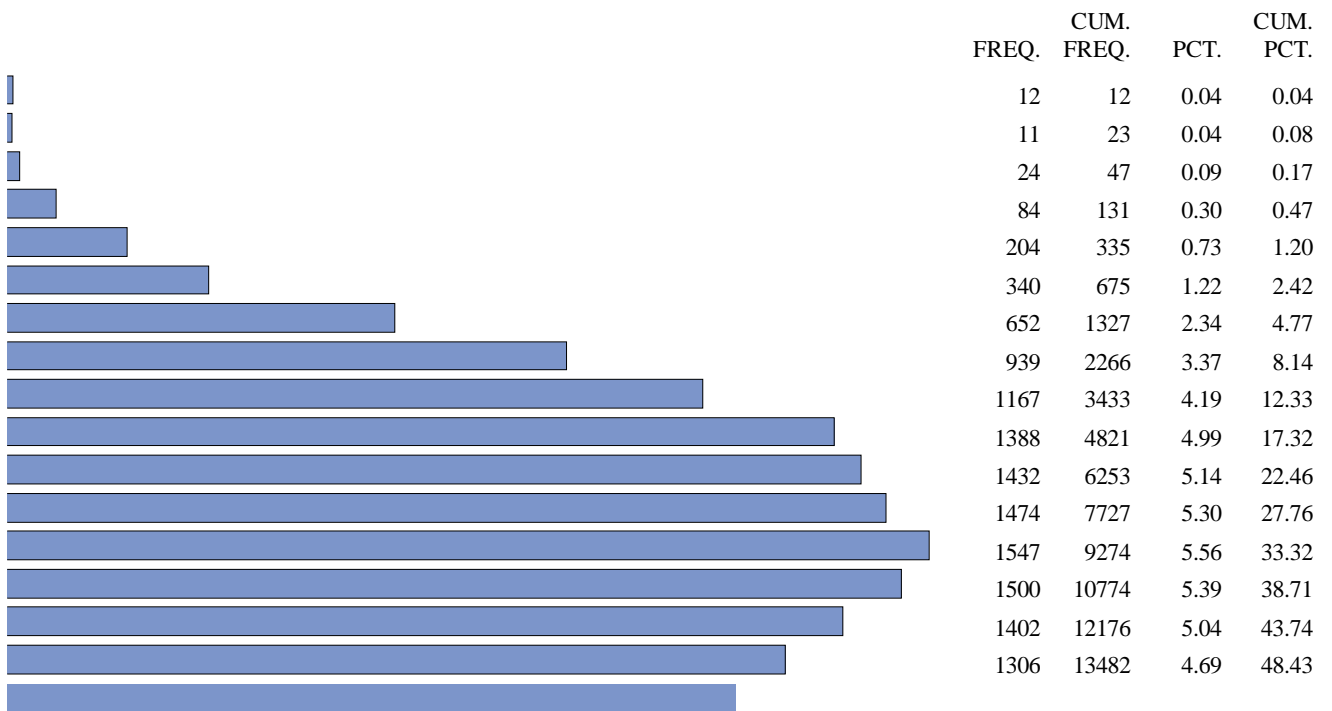
Figure B.7.17. Spring 2021 STAAR English Grade 8 Social Studies
 Frequency Distribution of Scale Scores
 All Students



Notes:

Students who took the braille or the ASL or the paper STAAR with Embedded Supports version of the test are not included in the frequency distribution tables.

Figure B.7.21. Spring 2021 STAAR Spanish Grade 3 Reading
 Frequency Distribution of Scale Scores
 All Students

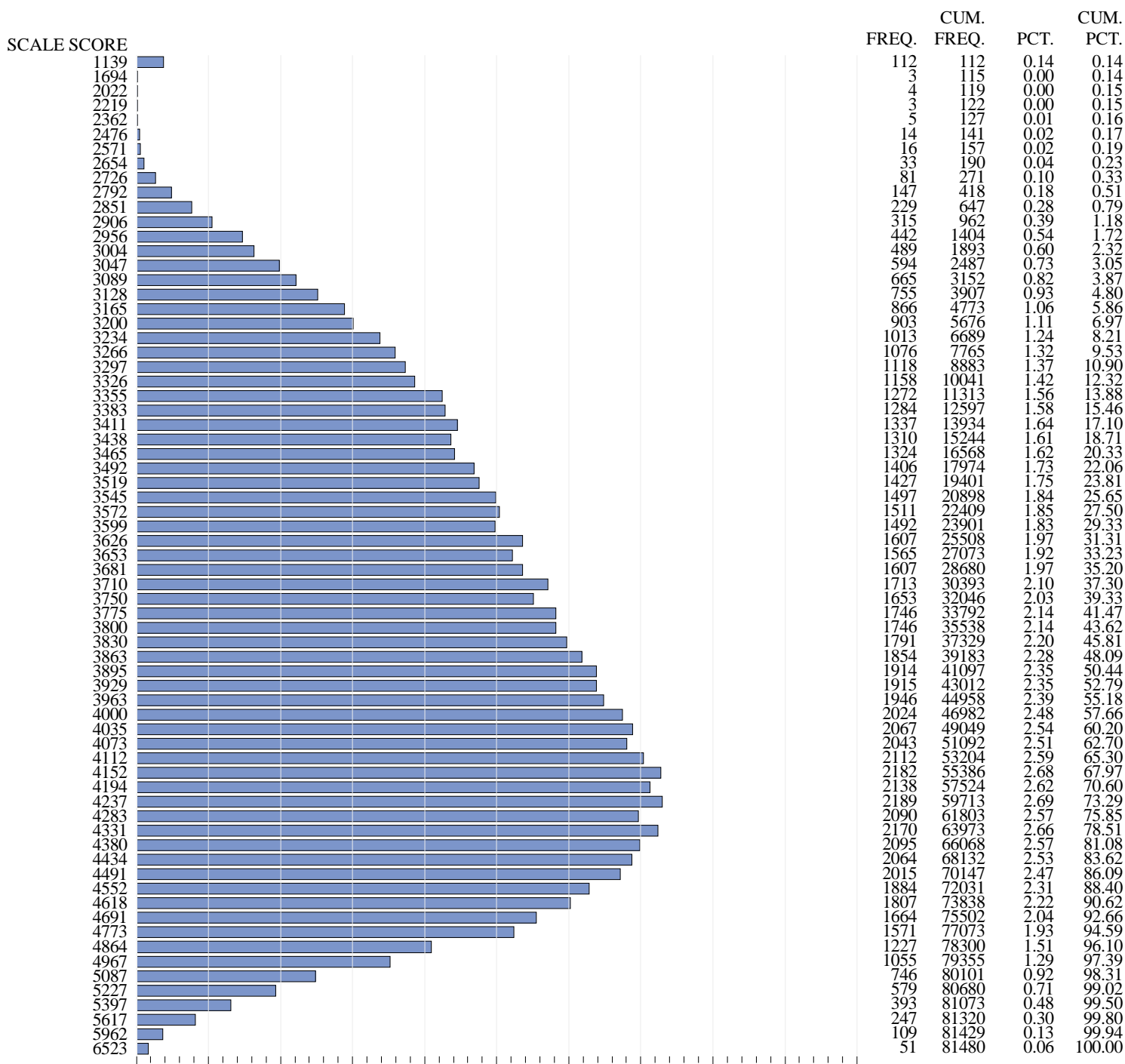


Notes:

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Figure B.7.24. Spring 2021 STAAR Spanish Grade 4 Writing
Frequency Distribution of Scale Scores
All Students

Figure B.7.28. Spring 2021 STAAR EOC English I
 Frequency Distribution of Scale Scores
 Online Students - Second Base Form



Notes:
 Students who took the braille or the ASL version of the test are not included in the frequency distribution tables.

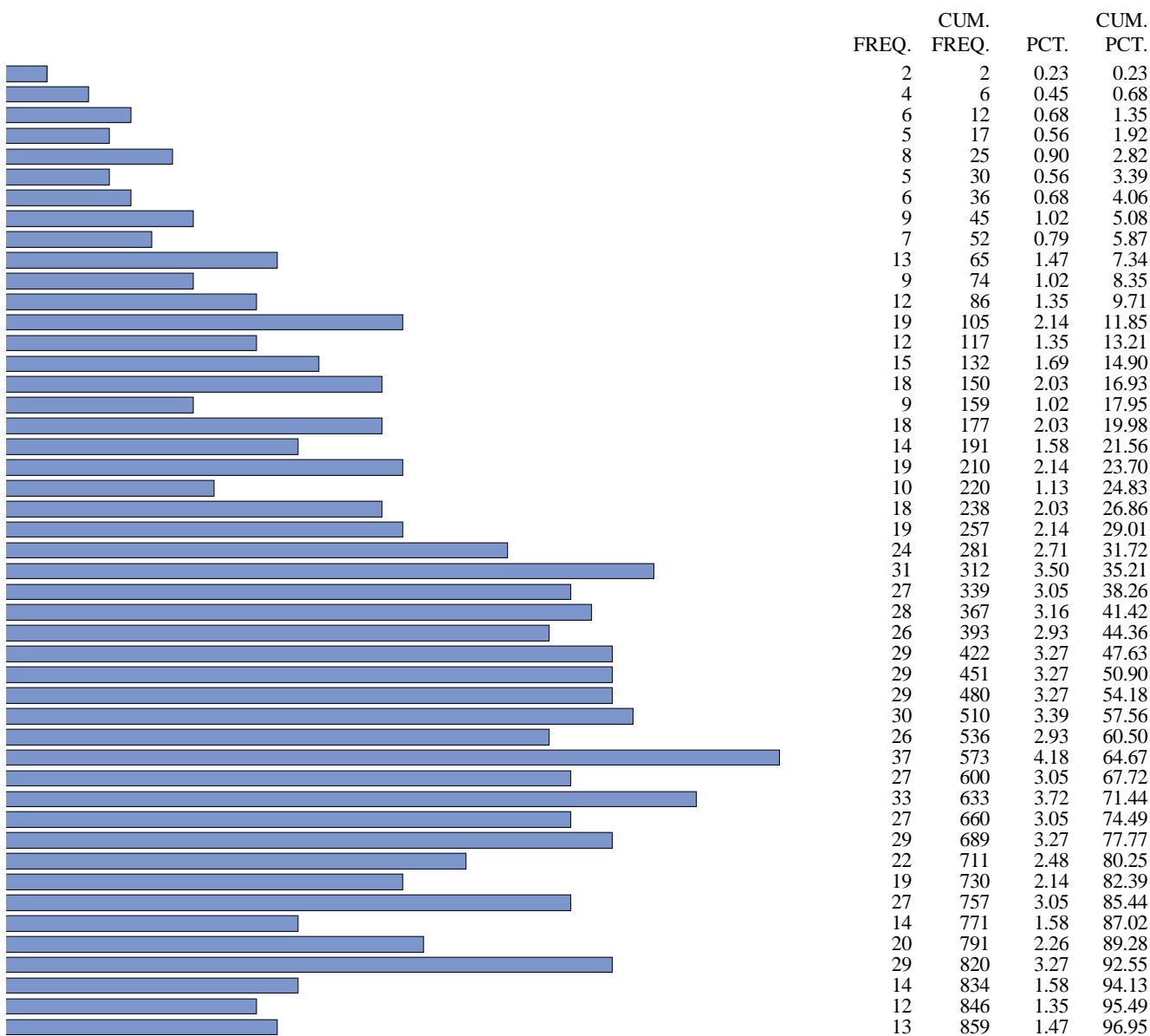
Figure B.7.29. Spring 2021 STAAR EOC English II

Figure B.7.30. Spring 2021 STAAR EOC English II
Frequency Distribution of Scale Scores
Online Students - Primary Base Form

Notes:

Students who took the braille or the ASL version of the test are not included in the frequency distribution tables.

Figure B.7.32. Spring 2021 STAAR EOC English III
 Frequency Distribution of Scale Scores
 Paper Students



Notes:

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Figure B.7.34. Spring 2021 STAAR EOC Algebra I

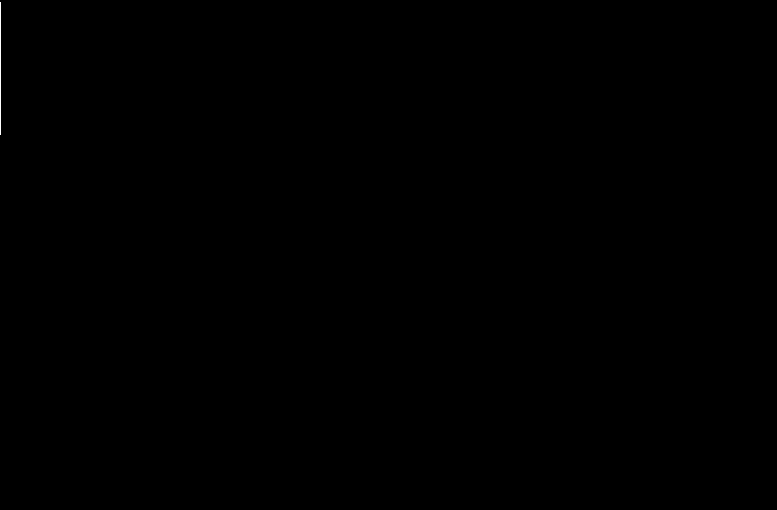
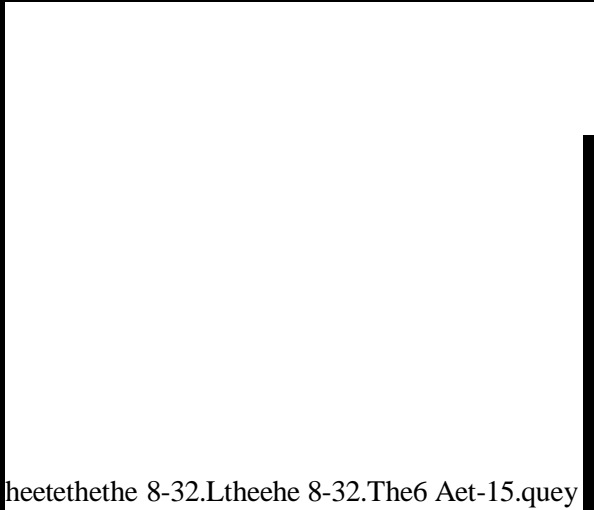
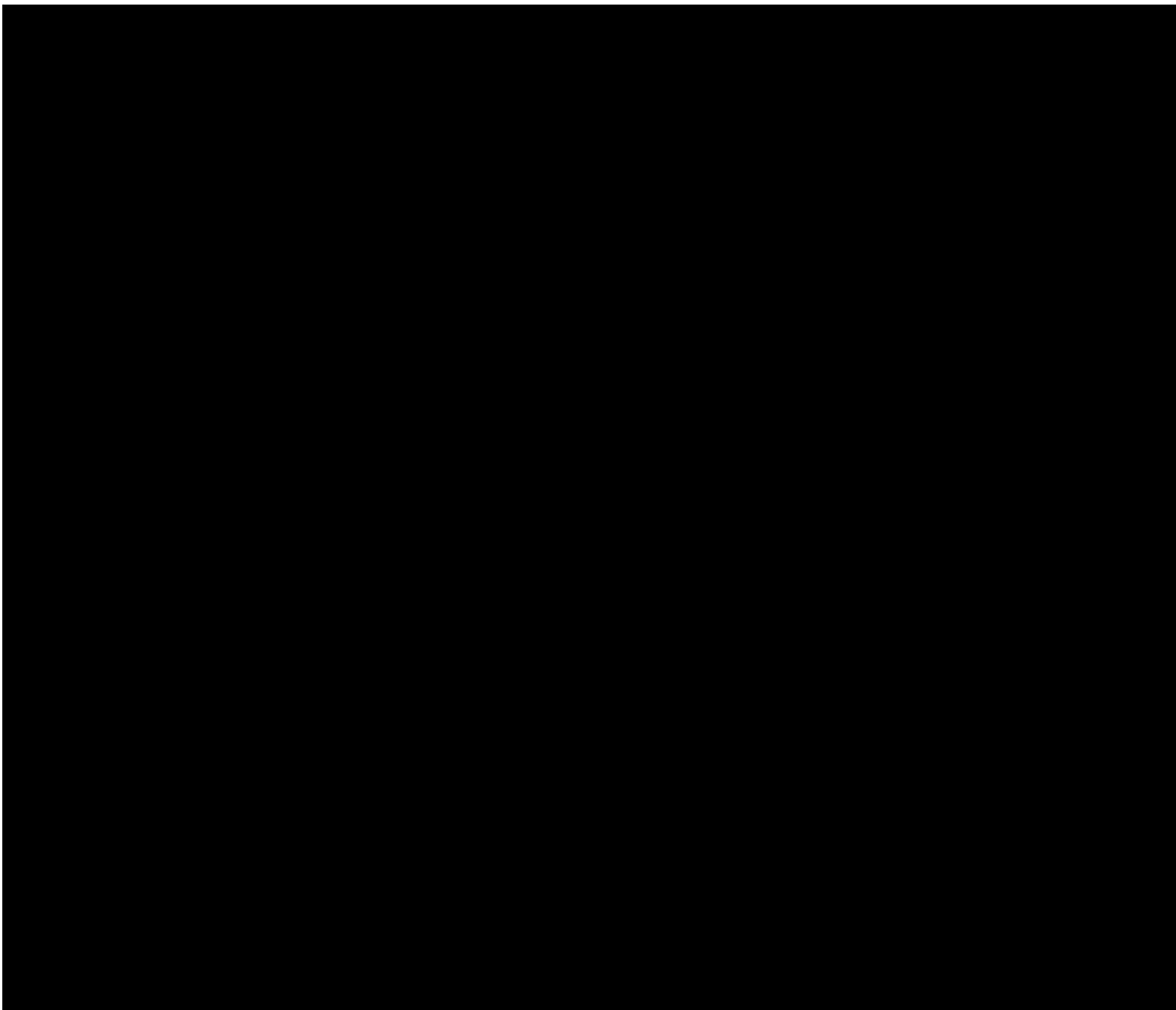
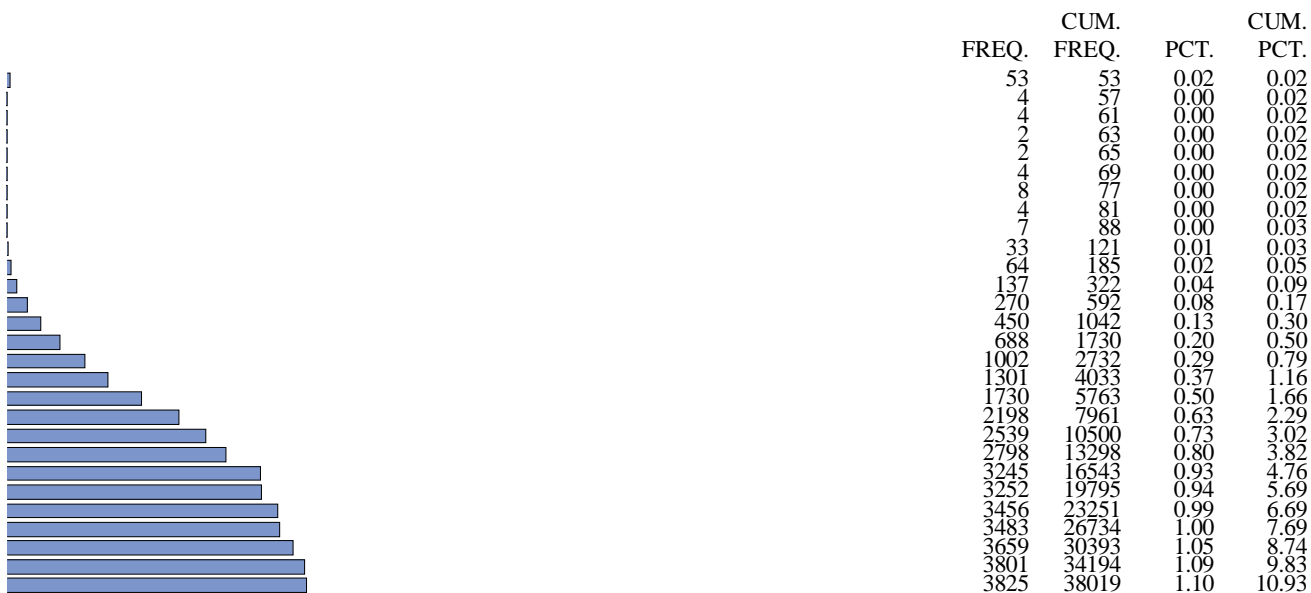


Figure B.7.36. Spring 2021 STAAR EOC Biology
Frequency Distribution of Scale Scores
All Students

Figure B.7.37. Spring 2021 STAAR EOC U.S. History
 Frequency Distribution of Scale Scores
 All Students



Notes:

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