2018 STAAR Alternate 2 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 ("2018 STAAR Alternate 2 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 chapter 3 or chapter 4.

Descriptive Statistics

Mean. The mean is a measure of central tendency. It is the average score for the assessment. It is computed by summing the scores of all students and dividing it by the total number of students (N).

Median. The median is another measure of central tendency. It is the score at the middle of the frequency distribution for the assessment. It is computed by finding the score at which there is the same number of scores above as there is below.

Mode. The mode is another measure of central tendency. It is the most frequently obtained score for the assessment. It is determined by computing the frequency distribution and finding the score point with the highest frequency (n-count).

Range. The range is a measure of statistical dispersion (variability or spread). It is the difference between the lowest and highest scores obtained by students on the assessment. It is computed by subtracting the lowest score from the highest score.

Interquartile Range. The interquartile range is another measure of statistical dispersion (variability or spread). It is the difference between the 1st and 3rd quartiles (or 25th and 75th percentiles) of the score distribution for the assessment. It is computed by subtracting the score at the 1st quartile (the point that splits the lowest 25% of the scores) from the score at the 3rd quartile (the point that splits the highest 25% of the scores).

Standard Deviation (SD). The standard deviation is another measure of statistical dispersion (variability or spread). It is an indicator of the degree of score variation around the mean. It is computed using the following formula.

$$SD = \sqrt{\frac{\sum_{i=1}^{N}\left(X_i - \overline{X}\right)^2}{N-1}}$$

where X_i is the score for student i, $\overline{X}$ is the mean score and N is the total number of students who took the assessment.

Variance. The variance is another measure of statistical dispersion (variability or spread) around the mean. It is computed as the square of the standard deviation (SD).

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.

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

where X_i is the score for student i, $\overline{X}$ 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 kurtosis is another indicator of the shape of the score distribution. It measures the "peakedness" of the score distribution. A positive kurtosis is referred to as *leptokurtic*, meaning that the distribution has a more acute peak around the mean and fatter tails. A negative kurtosis is called *platykurtic*, meaning the distribution has a lower, wider peak around the mean and thinner tails. It is computed using the following formula.

$$Kurtosis = \frac{N(N+1)}{(N-1)(N-2)(N-3)} \sum_{i=1}^{N} \left(\frac{X_i - \overline{X}}{S_X} \right)^4 - \frac{3(N-1)^2}{(N-2)(N-3)}$$

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

Frequency Distributions

Frequency (FREQ). This is the number of students who obtained the particular score point on the assessment.

Cumulative Frequency (CUM FREQ). This is the number of students who obtained a score that is less than or equal to the particular score point on the assessment.

Percentage (PCT). This is the percentage of students who obtained the particular score point on the assessment. It is computed as: PCT = FREQ ÷ N × 100.

Cumulative Percentage (CUM PCT). This is the percentage of students who obtained a score that is less than or equal to the particular score point on the assessment. It is computed as: CUM PCT = CUM FREQ ÷ N × 100.

List of Tables

Table B.6.1. 2018 STAAR Alternate 2 Grades 3–8 Assessments Scale Score Descriptive Statistics

Table B.6.2. 2018 STAAR Alternate 2 EOC Assessments Scale Score Descriptive Statistics

List of Figures

Figure C.6.1. 2018 STAAR Alternate 2 Grade 3 Mathematics Frequency Distribution of Scale Scores All Students

Figure C.6.2. 2018 STAAR Alternate 2 Grade 4 Mathematics Frequency Distribution of Scale Scores All Students

Figure C.6.3. 2018 STAAR Alternate 2 Grade 5 Mathematics Frequency Distribution of Scale Scores All Students

Figure C.6.4. 2018 STAAR Alternate 2 Grade 6 Mathematics Frequency Distribution of Scale Scores All Students

Figure C.6.5. 2018 STAAR Alternate 2 Grade 7 Mathematics Frequency Distribution of Scale Scores All Students

Figure C.6.6. 2018 STAAR Alternate 2 Grade 8 Mathematics Frequency Distribution of Scale Scores All Students

Figure C.6.7. 2018 STAAR Alternate 2 Grade 3 Reading Frequency Distribution of Scale Scores All Students

Figure C.6.8. 2018 STAAR Alternate 2 Grade 4 Reading Frequency Distribution of Scale Scores All Students

Figure C.6.9. 2018 STAAR Alternate 2 Grade 5 Reading Frequency Distribution of Scale Scores All Students

Figure C.6.10. 2018 STAAR Alternate 2 Grade 6 Reading Frequency Distribution of Scale Scores All Students

Figure C.6.11. 2018 STAAR Alternate 2 Grade 7 Reading Frequency Distribution of Scale Scores All Students

Figure C.6.12. 2018 STAAR Alternate 2 Grade 8 Reading Frequency Distribution of Scale Scores All Students

Figure C.6.13. 2018 STAAR Alternate 2 Grade 4 Writing Frequency Distribution of Scale Scores All Students

Figure C.6.14. 2018 STAAR Alternate 2 Grade 7 Writing Frequency Distribution of Scale Scores All Students

Figure C.6.15. 2018 STAAR Alternate 2 Grade 5 Science Frequency Distribution of Scale Scores All Students

Figure C.6.16. 2018 STAAR Alternate 2 Grade 8 Science Frequency Distribution of Scale Scores All Students

Figure C.6.17. 2018 STAAR Alternate 2 Grade 8 Social Studies Frequency Distribution of Scale Scores All Students

Figure C.6.18. Spring 2018 STAAR EOC Algebra I Frequency Distribution of Scale Scores Online Students

Figure C.6.19. Spring 2018 STAAR EOC English I Frequency Distribution of Scale Scores Online Students

Figure C.6.20. Spring 2018 STAAR EOC English II Frequency Distribution of Scale Scores All Students

Figure C.6.21. Spring 2018 STAAR EOC Biology Frequency Distribution of Scale Scores All Students

Figure C.6.22. Spring 2018 STAAR EOC U.S. History Frequency Distribution of Scale Scores All Students

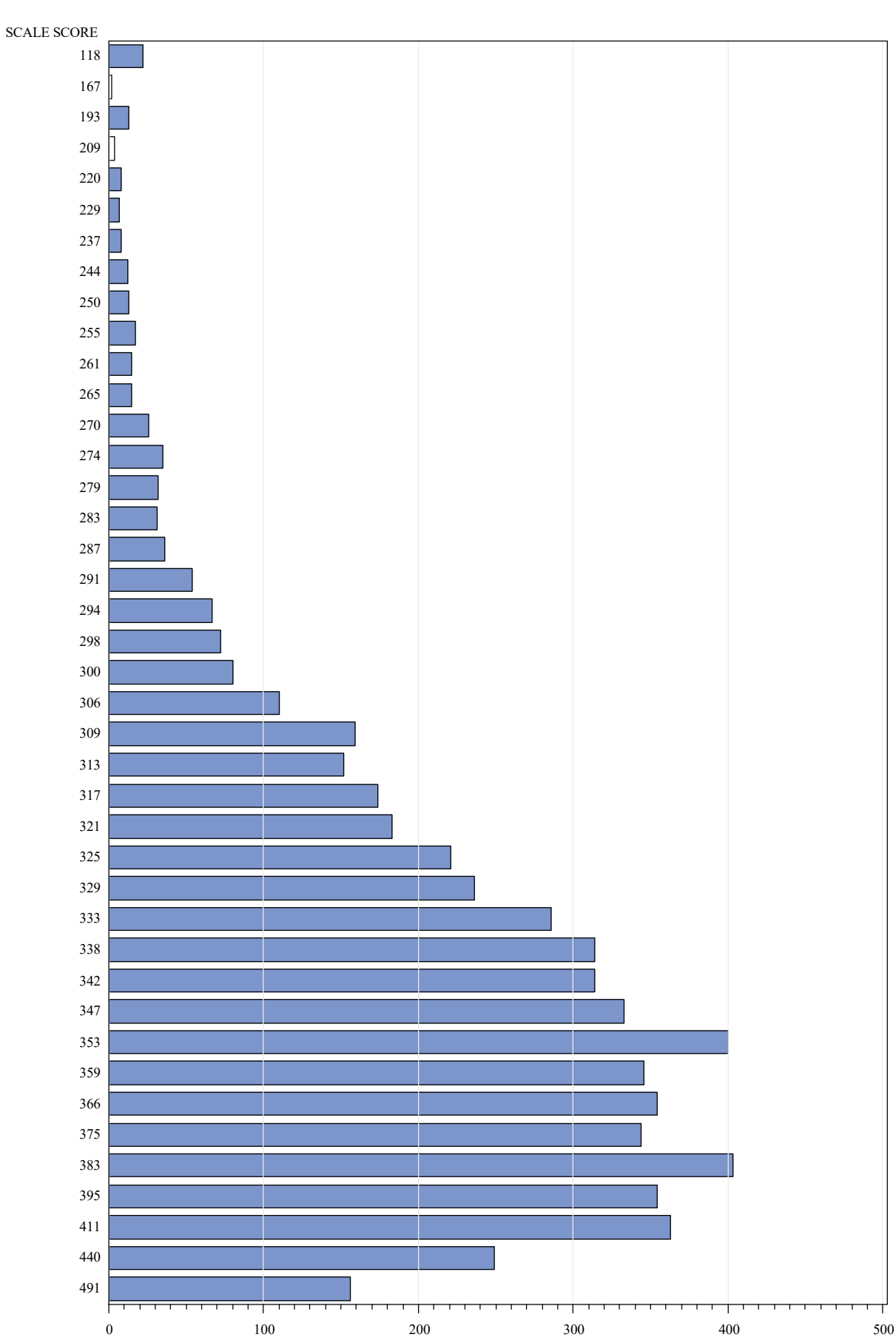
Table B.6.1. 2018 STAAR Alternate 2 Grades 3–8 Assessments
Scale Score Descriptive Statistics

Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
Grade 3 Mathematics	6,020	353.32	347	383	373	58	47.47	2253.12	0.03	2.85
Grade 4 Mathematics	6,056	362.60	362	387	366	51	43.48	1890.75	-0.10	3.50
Grade 5 Mathematics	6,160	364.90	360	406	374	63	52.86	2793.78	0.32	0.76
Grade 6 Mathematics	5,677	364.83	364	383	403	66	57.31	3284.97	0.00	1.98
Grade 7 Mathematics	5,294	361.79	360	368	401	51	47.74	2278.71	-0.02	3.27
Grade 8 Mathematics	5,087	358.65	354	413	398	56	53.05	2813.81	0.03	2.33
Grade 3 Reading	6,019	342.09	340	352	383	45	40.57	1645.76	-0.54	4.48
Grade 4 Reading	6,060	352.58	350	377	392	52	47.70	2275.12	-0.17	3.12
Grade 5 Reading	6,162	351.90	348	363	407	49	45.72	2089.94	0.31	2.62
Grade 6 Reading	5,678	349.30	347	354	397	48	45.38	2059.03	-0.10	3.06
Grade 7 Reading	5,298	354.65	350	371	386	60	53.81	2895.47	0.14	1.51
Grade 8 Reading	5,089	354.09	350	365	378	52	45.07	2031.44	-0.06	3.05
Grade 4 Writing	6,054	337.71	335	341	406	50	44.12	1946.20	-0.19	4.20
Grade 7 Writing	5,296	343.13	338	367	394	46	43.81	1919.61	-0.09	4.42
Grade 5 Science	6,164	366.20	367	387	389	48	46.81	2191.09	0.12	1.92
Grade 8 Science	5,087	364.78	360	382	350	39	43.67	1906.66	-0.09	3.08
Grade 8 Social Studies	5,081	355.72	350	386	370	58	46.74	2184.68	-0.04	2.97

Table B.6.2. 2018 STAAR Alternate 2 EOC Assessments
Scale Score Descriptive Statistics

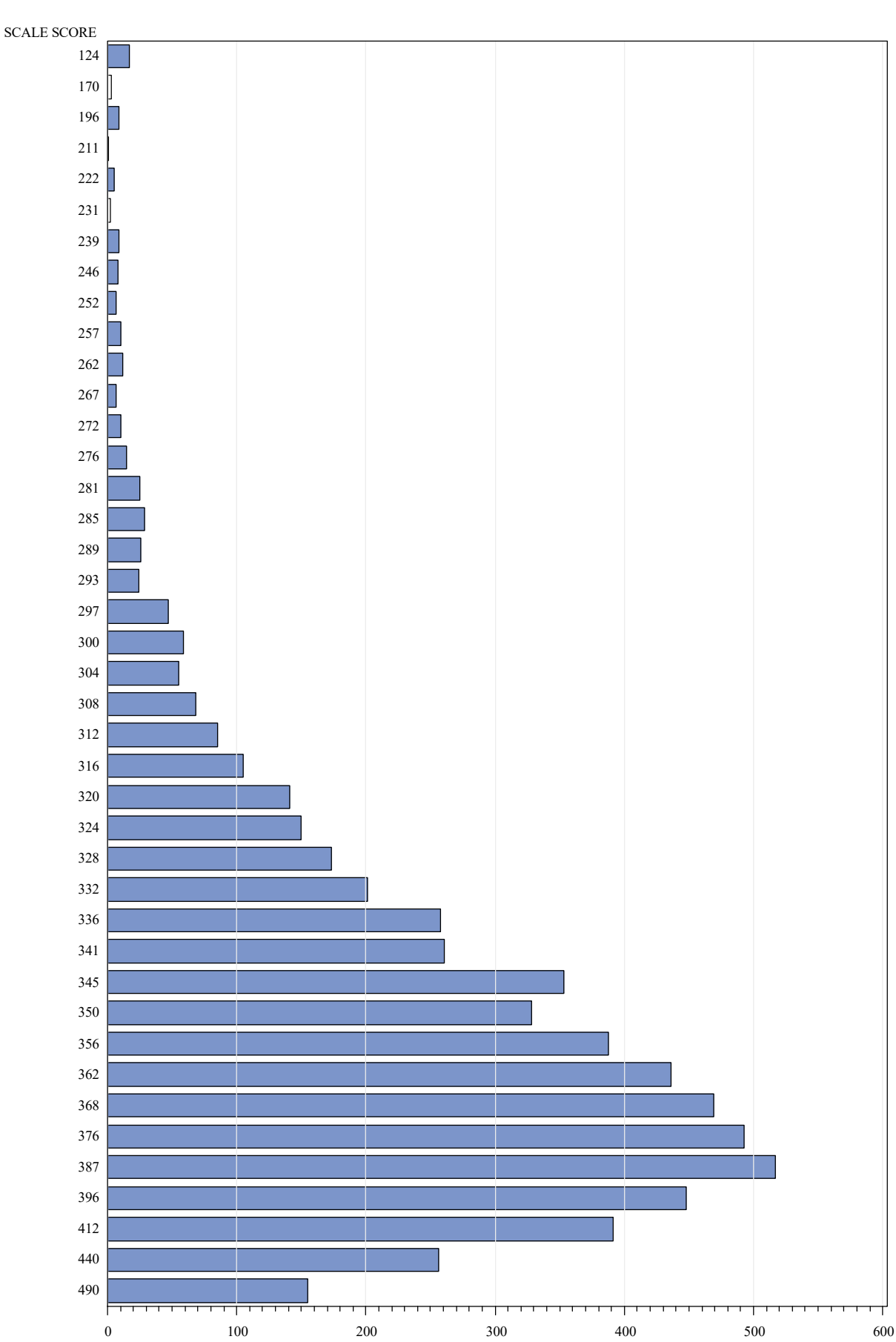
Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
Algebra I	4,884	347.64	346	340	408	43	48.00	2304.25	-0.26	5.17
English I	4,868	352.57	353	359	412	48	45.83	2100.72	0.00	4.19
English II	4,556	359.35	359	374	412	51	47.92	2296.42	-0.33	4.46
Biology	4,861	360.22	358	383	341	47	43.68	1908.36	-0.06	2.80
U.S. History	4,274	349.43	344	351	376	46	43.80	1918.69	-0.04	4.12

Figure C.6.1 2018 STAAR Alternate 2 Grade 3 Mathematics
Frequency Distribution of Scale Scores
All Students



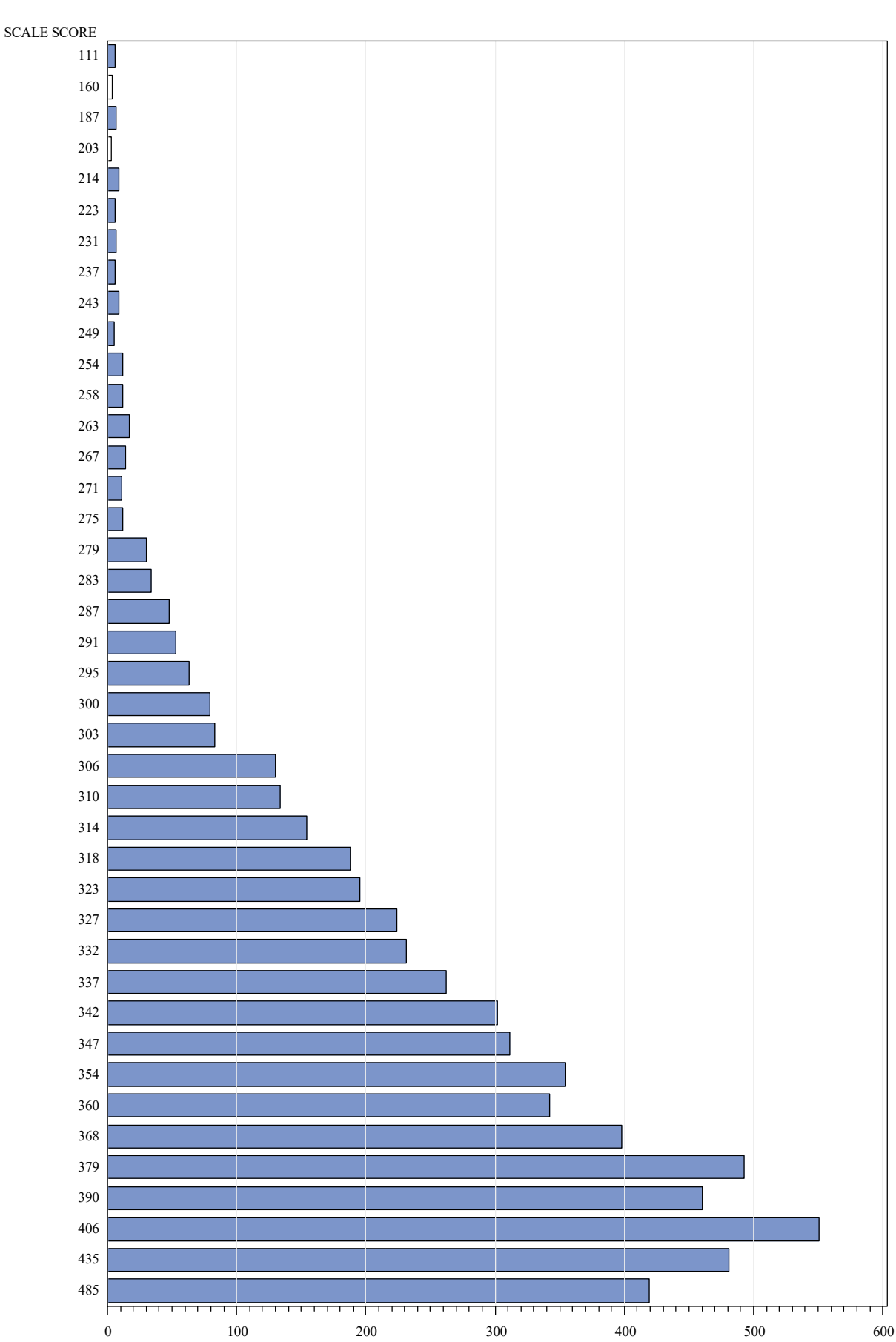
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
118	22	22	0.37	0.37
167	2	24	0.03	0.40
193	13	37	0.22	0.61
209	4	41	0.07	0.68
220	8	49	0.13	0.81
229	7	56	0.12	0.93
237	8	64	0.13	1.06
244	12	76	0.20	1.26
250	13	89	0.22	1.48
255	17	106	0.28	1.76
261	15	121	0.25	2.01
265	15	136	0.25	2.26
270	26	162	0.43	2.69
274	35	197	0.58	3.27
279	32	229	0.53	3.80
283	31	260	0.51	4.32
287	36	296	0.60	4.92
291	54	350	0.90	5.81
294	67	417	1.11	6.93
298	72	489	1.20	8.12
300	80	569	1.33	9.45
306	110	679	1.83	11.28
309	159	838	2.64	13.92
313	152	990	2.52	16.45
317	174	1164	2.89	19.34
321	183	1347	3.04	22.38
325	221	1568	3.67	26.05
329	236	1804	3.92	29.97
333	286	2090	4.75	34.72
338	314	2404	5.22	39.93
342	314	2718	5.22	45.15
347	333	3051	5.53	50.68
353	400	3451	6.64	57.33
359	346	3797	5.75	63.07
366	354	4151	5.88	68.95
375	344	4495	5.71	74.67
383	403	4898	6.69	81.36
395	354	5252	5.88	87.24
411	363	5615	6.03	93.27
440	249	5864	4.14	97.41
491	156	6020	2.59	100.00

Figure C.6.2 2018 STAAR Alternate 2 Grade 4 Mathematics
Frequency Distribution of Scale Scores
All Students



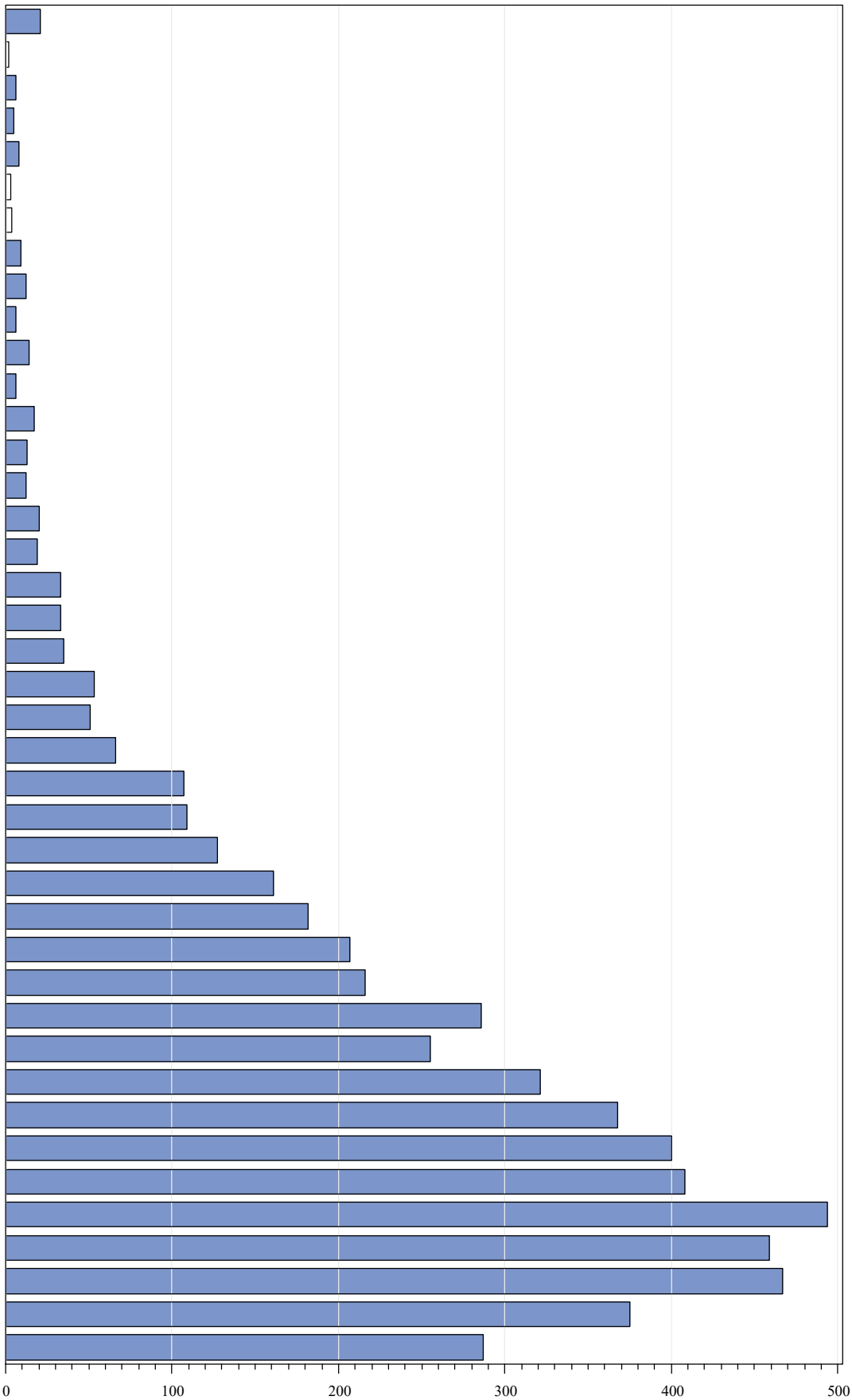
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
124	17	17	0.28	0.28
170	3	20	0.05	0.33
196	9	29	0.15	0.48
211	1	30	0.02	0.50
222	5	35	0.08	0.58
231	2	37	0.03	0.61
239	9	46	0.15	0.76
246	8	54	0.13	0.89
252	7	61	0.12	1.01
257	10	71	0.17	1.17
262	12	83	0.20	1.37
267	7	90	0.12	1.49
272	10	100	0.17	1.65
276	15	115	0.25	1.90
281	25	140	0.41	2.31
285	29	169	0.48	2.79
289	26	195	0.43	3.22
293	24	219	0.40	3.62
297	47	266	0.78	4.39
300	59	325	0.97	5.37
304	55	380	0.91	6.27
308	68	448	1.12	7.40
312	85	533	1.40	8.80
316	105	638	1.73	10.54
320	141	779	2.33	12.86
324	150	929	2.48	15.34
328	173	1102	2.86	18.20
332	201	1303	3.32	21.52
336	258	1561	4.26	25.78
341	261	1822	4.31	30.09
345	353	2175	5.83	35.91
350	328	2503	5.42	41.33
356	388	2891	6.41	47.74
362	436	3327	7.20	54.94
368	469	3796	7.74	62.68
376	493	4289	8.14	70.82
387	517	4806	8.54	79.36
396	448	5254	7.40	86.76
412	391	5645	6.46	93.21
440	256	5901	4.23	97.44
490	155	6056	2.56	100.00

Figure C.6.3 2018 STAAR Alternate 2 Grade 5 Mathematics
Frequency Distribution of Scale Scores
All Students



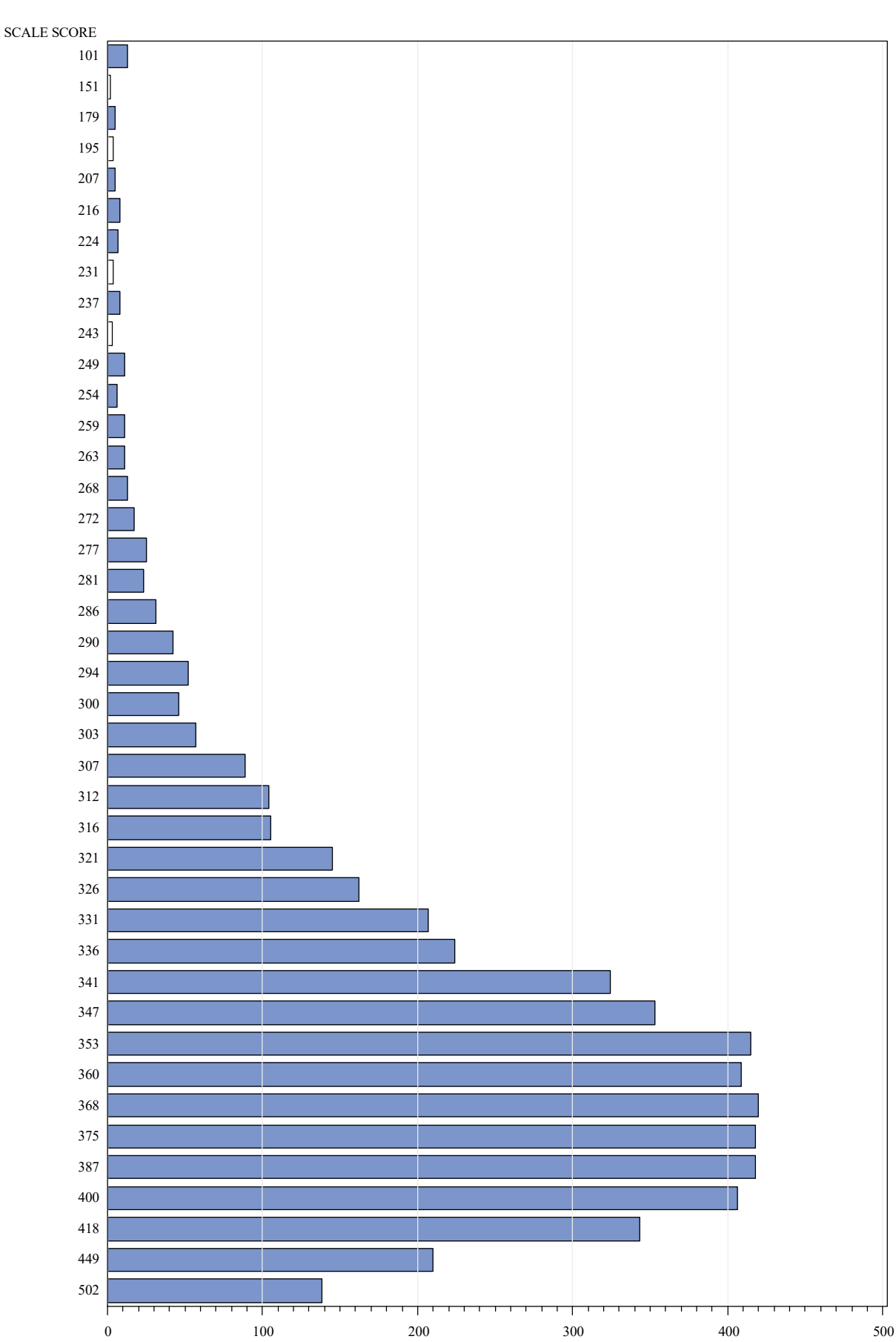
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
111	6	6	0.10	0.10
160	4	10	0.06	0.16
187	7	17	0.11	0.28
203	3	20	0.05	0.32
214	9	29	0.15	0.47
223	6	35	0.10	0.57
231	7	42	0.11	0.68
237	6	48	0.10	0.78
243	9	57	0.15	0.93
249	5	62	0.08	1.01
254	12	74	0.19	1.20
258	12	86	0.19	1.40
263	17	103	0.28	1.67
267	14	117	0.23	1.90
271	11	128	0.18	2.08
275	12	140	0.19	2.27
279	30	170	0.49	2.76
283	34	204	0.55	3.31
287	48	252	0.78	4.09
291	53	305	0.86	4.95
295	63	368	1.02	5.97
300	79	447	1.28	7.26
303	83	530	1.35	8.60
306	130	660	2.11	10.71
310	134	794	2.18	12.89
314	154	948	2.50	15.39
318	188	1136	3.05	18.44
323	195	1331	3.17	21.61
327	224	1555	3.64	25.24
332	231	1786	3.75	28.99
337	262	2048	4.25	33.25
342	302	2350	4.90	38.15
347	311	2661	5.05	43.20
354	355	3016	5.76	48.96
360	342	3358	5.55	54.51
368	398	3756	6.46	60.97
379	493	4249	8.00	68.98
390	460	4709	7.47	76.44
406	551	5260	8.94	85.39
435	481	5741	7.81	93.20
485	419	6160	6.80	100.00

Figure C.6.4 2018 STAAR Alternate 2 Grade 6 Mathematics
Frequency Distribution of Scale Scores
All Students



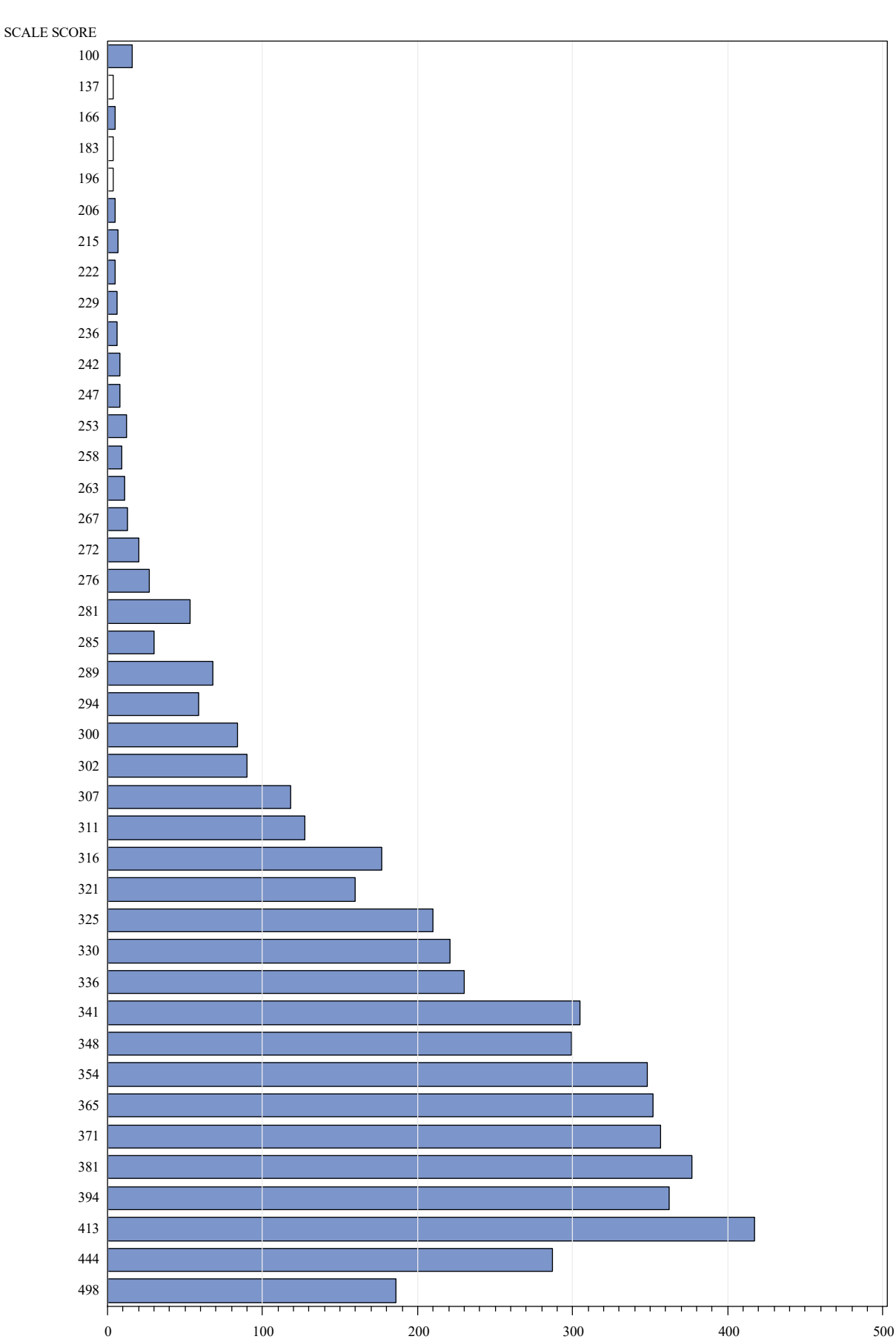
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	21	21	0.37	0.37
134	2	23	0.04	0.41
162	6	29	0.11	0.51
179	5	34	0.09	0.60
191	8	42	0.14	0.74
202	3	45	0.05	0.79
210	4	49	0.07	0.86
218	9	58	0.16	1.02
225	12	70	0.21	1.23
232	6	76	0.11	1.34
238	14	90	0.25	1.59
244	6	96	0.11	1.69
250	17	113	0.30	1.99
255	13	126	0.23	2.22
260	12	138	0.21	2.43
265	20	158	0.35	2.78
270	19	177	0.33	3.12
274	33	210	0.58	3.70
279	33	243	0.58	4.28
284	35	278	0.62	4.90
288	53	331	0.93	5.83
292	51	382	0.90	6.73
297	66	448	1.16	7.89
300	107	555	1.88	9.78
306	109	664	1.92	11.70
311	127	791	2.24	13.93
315	161	952	2.84	16.77
320	182	1134	3.21	19.98
325	207	1341	3.65	23.62
331	216	1557	3.80	27.43
336	286	1843	5.04	32.46
342	255	2098	4.49	36.96
349	321	2419	5.65	42.61
356	368	2787	6.48	49.09
364	400	3187	7.05	56.14
373	408	3595	7.19	63.33
383	494	4089	8.70	72.03
397	459	4548	8.09	80.11
415	467	5015	8.23	88.34
447	375	5390	6.61	94.94
503	287	5677	5.06	100.00

Figure C.6.5 2018 STAAR Alternate 2 Grade 7 Mathematics
Frequency Distribution of Scale Scores
All Students



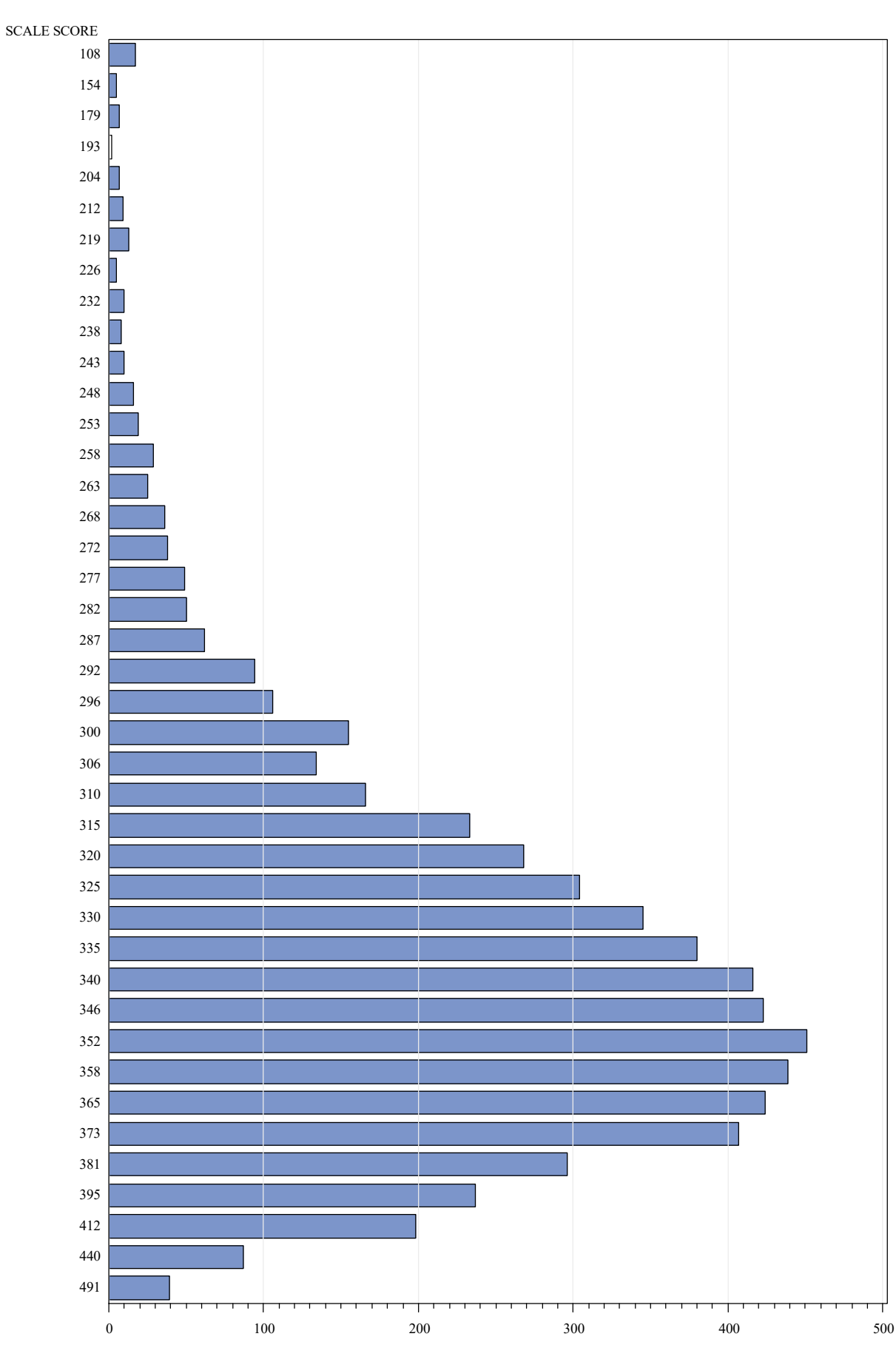
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
101	13	13	0.25	0.25
151	2	15	0.04	0.28
179	5	20	0.09	0.38
195	4	24	0.08	0.45
207	5	29	0.09	0.55
216	8	37	0.15	0.70
224	7	44	0.13	0.83
231	4	48	0.08	0.91
237	8	56	0.15	1.06
243	3	59	0.06	1.11
249	11	70	0.21	1.32
254	6	76	0.11	1.44
259	11	87	0.21	1.64
263	11	98	0.21	1.85
268	13	111	0.25	2.10
272	17	128	0.32	2.42
277	25	153	0.47	2.89
281	23	176	0.43	3.32
286	31	207	0.59	3.91
290	42	249	0.79	4.70
294	52	301	0.98	5.69
300	46	347	0.87	6.55
303	57	404	1.08	7.63
307	89	493	1.68	9.31
312	104	597	1.96	11.28
316	105	702	1.98	13.26
321	145	847	2.74	16.00
326	162	1009	3.06	19.06
331	207	1216	3.91	22.97
336	224	1440	4.23	27.20
341	324	1764	6.12	33.32
347	353	2117	6.67	39.99
353	415	2532	7.84	47.83
360	409	2941	7.73	55.55
368	420	3361	7.93	63.49
375	418	3779	7.90	71.38
387	418	4197	7.90	79.28
400	406	4603	7.67	86.95
418	343	4946	6.48	93.43
449	210	5156	3.97	97.39
502	138	5294	2.61	100.00

Figure C.6.6 2018 STAAR Alternate 2 Grade 8 Mathematics
Frequency Distribution of Scale Scores
All Students



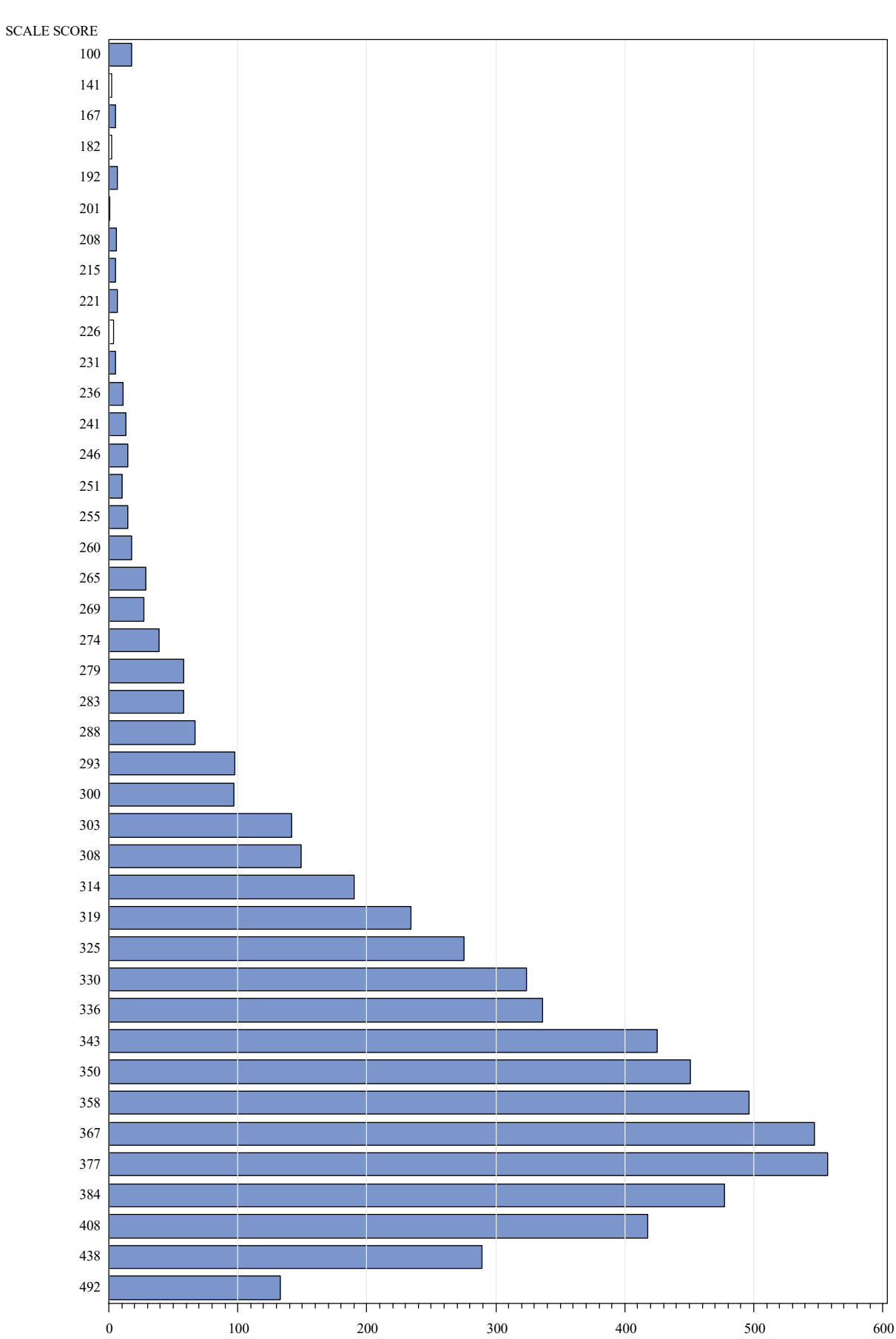
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	16	16	0.31	0.31
137	4	20	0.08	0.39
166	5	25	0.10	0.49
183	4	29	0.08	0.57
196	4	33	0.08	0.65
206	5	38	0.10	0.75
215	7	45	0.14	0.88
222	5	50	0.10	0.98
229	6	56	0.12	1.10
236	6	62	0.12	1.22
242	8	70	0.16	1.38
247	8	78	0.16	1.53
253	12	90	0.24	1.77
258	9	99	0.18	1.95
263	11	110	0.22	2.16
267	13	123	0.26	2.42
272	20	143	0.39	2.81
276	27	170	0.53	3.34
281	53	223	1.04	4.38
285	30	253	0.59	4.97
289	68	321	1.34	6.31
294	59	380	1.16	7.47
300	84	464	1.65	9.12
302	90	554	1.77	10.89
307	118	672	2.32	13.21
311	127	799	2.50	15.71
316	177	976	3.48	19.19
321	160	1136	3.15	22.33
325	210	1346	4.13	26.46
330	221	1567	4.34	30.80
336	230	1797	4.52	35.33
341	305	2102	6.00	41.32
348	299	2401	5.88	47.20
354	348	2749	6.84	54.04
365	352	3101	6.92	60.96
371	357	3458	7.02	67.98
381	377	3835	7.41	75.39
394	362	4197	7.12	82.50
413	417	4614	8.20	90.70
444	287	4901	5.64	96.34
498	186	5087	3.66	100.00

Figure C.6.7 2018 STAAR Alternate 2 Grade 3 Reading
Frequency Distribution of Scale Scores
All Students



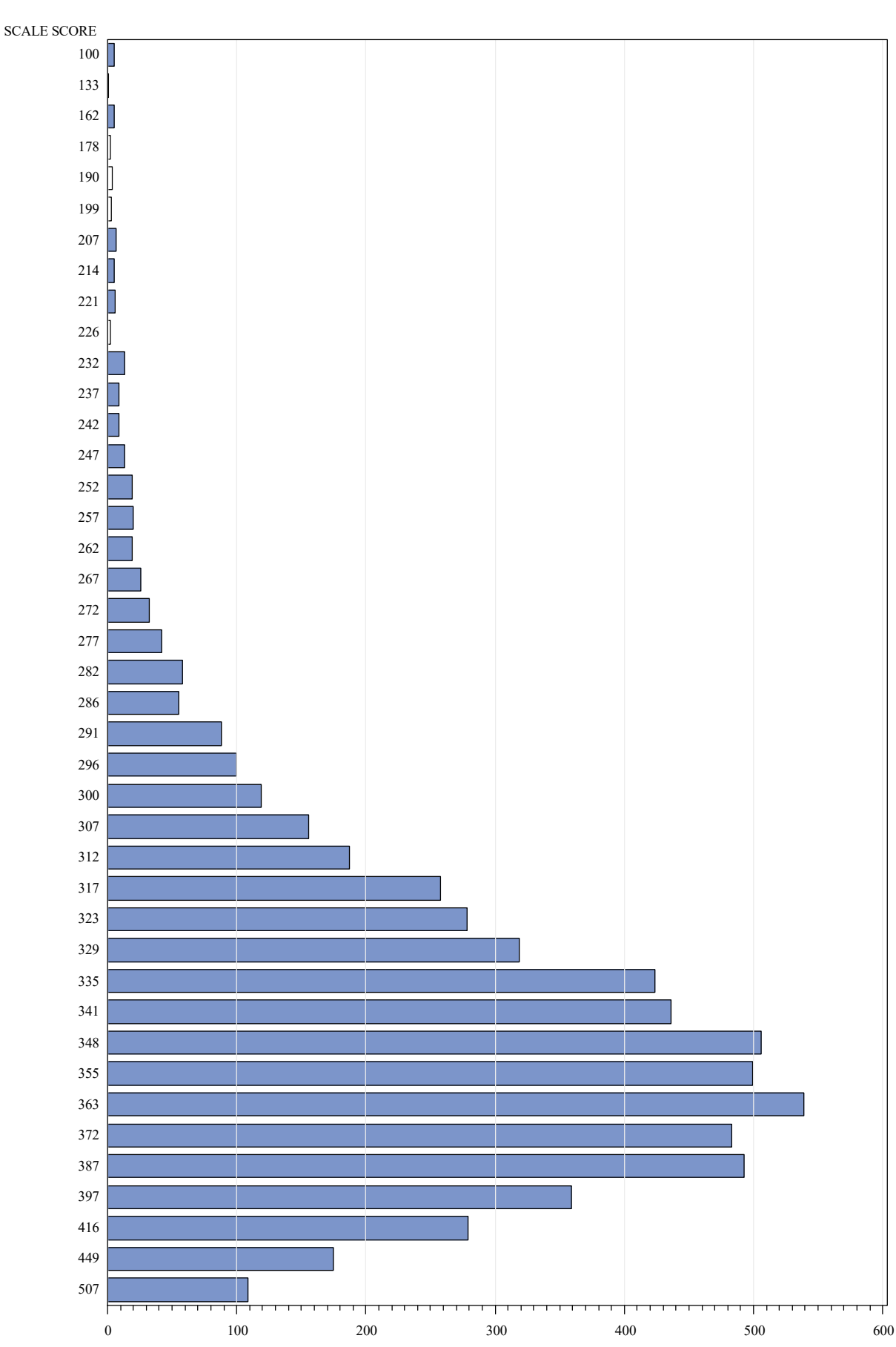
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
108	17	17	0.28	0.28
154	5	22	0.08	0.37
179	7	29	0.12	0.48
193	2	31	0.03	0.52
204	7	38	0.12	0.63
212	9	47	0.15	0.78
219	13	60	0.22	1.00
226	5	65	0.08	1.08
232	10	75	0.17	1.25
238	8	83	0.13	1.38
243	10	93	0.17	1.55
248	16	109	0.27	1.81
253	19	128	0.32	2.13
258	29	157	0.48	2.61
263	25	182	0.42	3.02
268	36	218	0.60	3.62
272	38	256	0.63	4.25
277	49	305	0.81	5.07
282	50	355	0.83	5.90
287	62	417	1.03	6.93
292	94	511	1.56	8.49
296	106	617	1.76	10.25
300	155	772	2.58	12.83
306	134	906	2.23	15.05
310	166	1072	2.76	17.81
315	233	1305	3.87	21.68
320	268	1573	4.45	26.13
325	304	1877	5.05	31.18
330	345	2222	5.73	36.92
335	380	2602	6.31	43.23
340	416	3018	6.91	50.14
346	423	3441	7.03	57.17
352	451	3892	7.49	64.66
358	439	4331	7.29	71.96
365	424	4755	7.04	79.00
373	407	5162	6.76	85.76
381	296	5458	4.92	90.68
395	237	5695	3.94	94.62
412	198	5893	3.29	97.91
440	87	5980	1.45	99.35
491	39	6019	0.65	100.00

Figure C.6.8 2018 STAAR Alternate 2 Grade 4 Reading
Frequency Distribution of Scale Scores
All Students



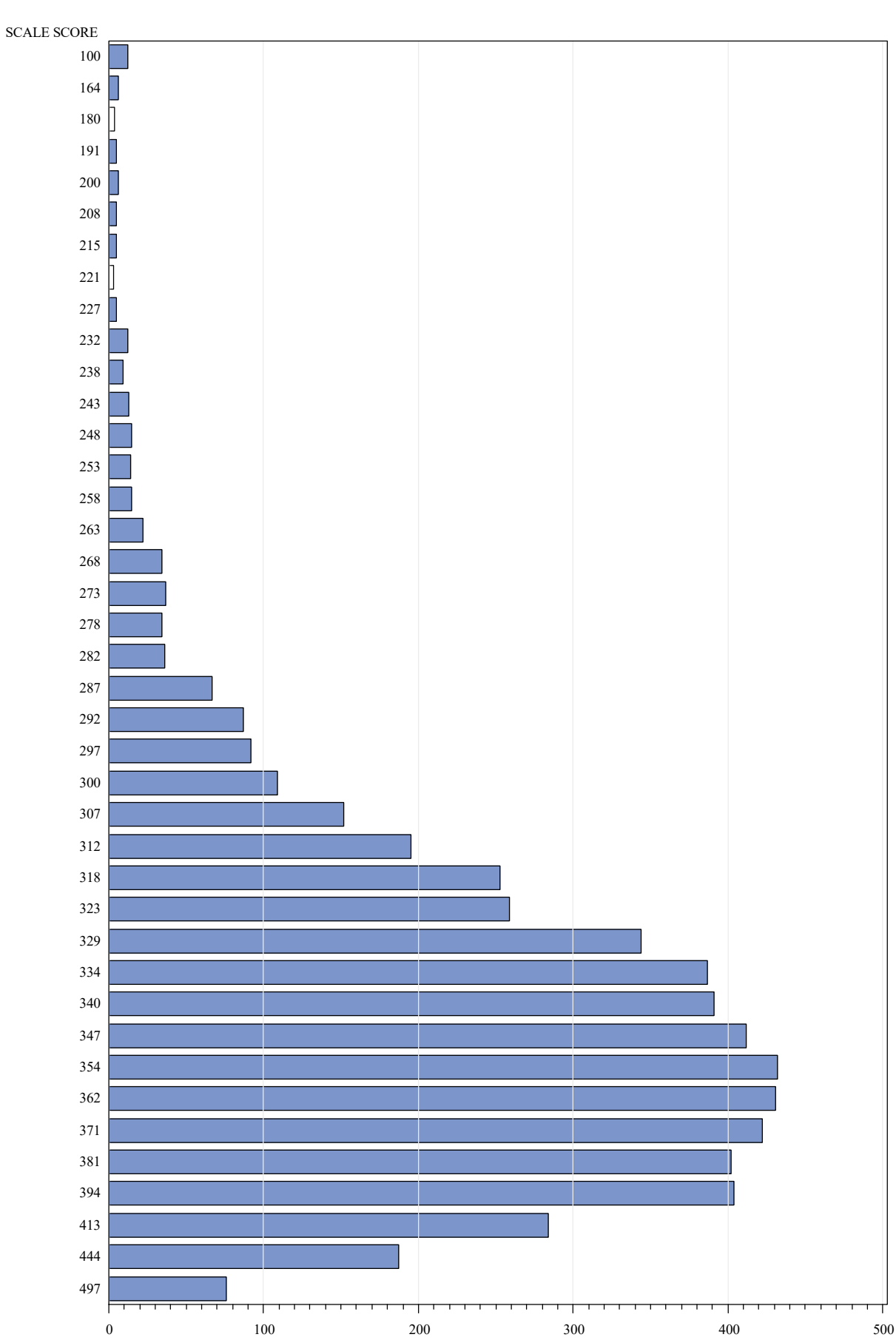
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	18	18	0.30	0.30
141	2	20	0.03	0.33
167	5	25	0.08	0.41
182	2	27	0.03	0.45
192	7	34	0.12	0.56
201	1	35	0.02	0.58
208	6	41	0.10	0.68
215	5	46	0.08	0.76
221	7	53	0.12	0.87
226	4	57	0.07	0.94
231	5	62	0.08	1.02
236	11	73	0.18	1.20
241	13	86	0.21	1.42
246	15	101	0.25	1.67
251	10	111	0.17	1.83
255	15	126	0.25	2.08
260	18	144	0.30	2.38
265	29	173	0.48	2.85
269	27	200	0.45	3.30
274	39	239	0.64	3.94
279	58	297	0.96	4.90
283	58	355	0.96	5.86
288	67	422	1.11	6.96
293	98	520	1.62	8.58
300	97	617	1.60	10.18
303	142	759	2.34	12.52
308	149	908	2.46	14.98
314	190	1098	3.14	18.12
319	234	1332	3.86	21.98
325	275	1607	4.54	26.52
330	324	1931	5.35	31.86
336	336	2267	5.54	37.41
343	425	2692	7.01	44.42
350	451	3143	7.44	51.86
358	496	3639	8.18	60.05
367	547	4186	9.03	69.08
377	557	4743	9.19	78.27
384	477	5220	7.87	86.14
408	418	5638	6.90	93.04
438	289	5927	4.77	97.81
492	133	6060	2.19	100.00

Figure C.6.9 2018 STAAR Alternate 2 Grade 5 Reading
Frequency Distribution of Scale Scores
All Students



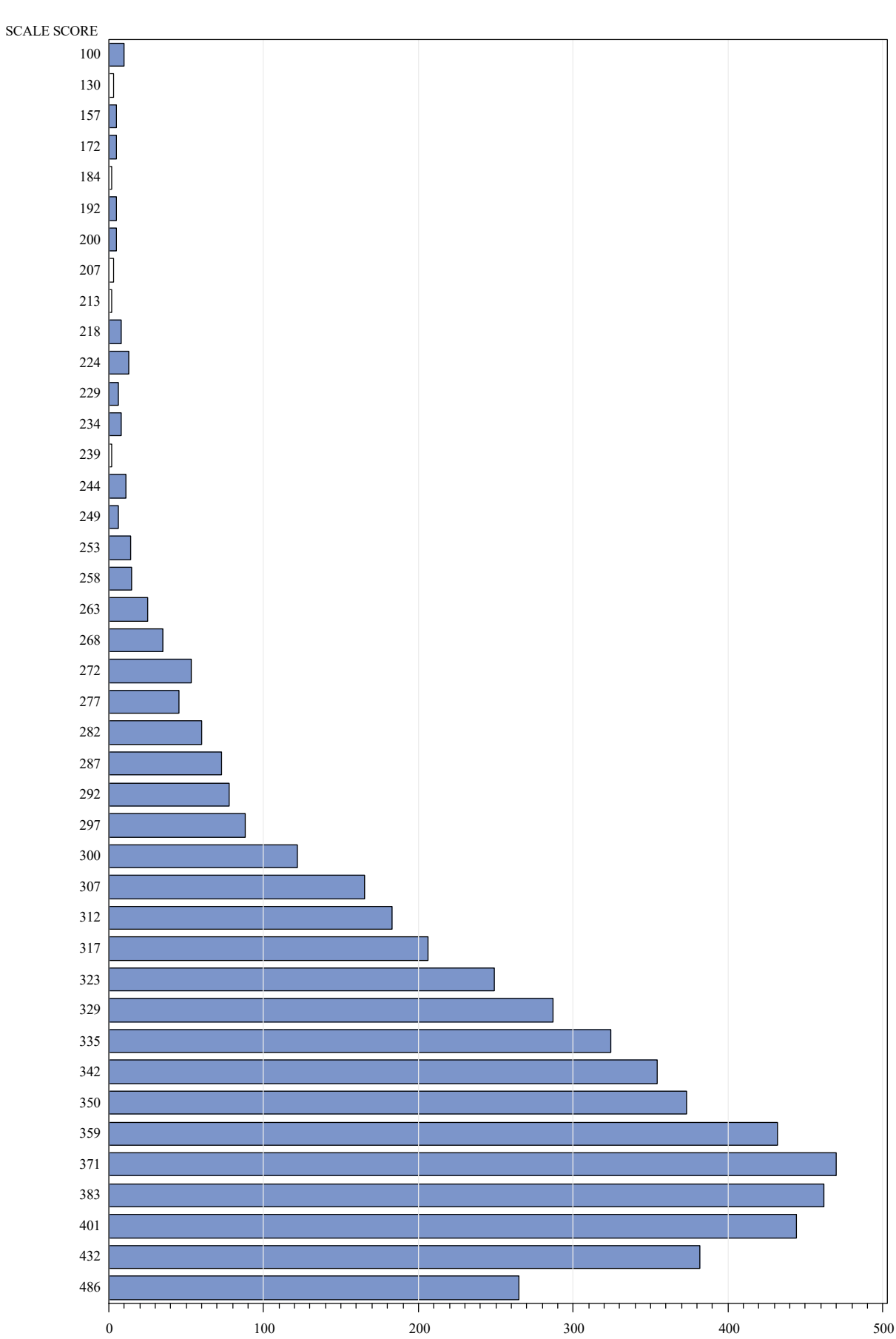
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	5	5	0.08	0.08
133	1	6	0.02	0.10
162	5	11	0.08	0.18
178	2	13	0.03	0.21
190	4	17	0.06	0.28
199	3	20	0.05	0.32
207	7	27	0.11	0.44
214	5	32	0.08	0.52
221	6	38	0.10	0.62
226	2	40	0.03	0.65
232	13	53	0.21	0.86
237	9	62	0.15	1.01
242	9	71	0.15	1.15
247	13	84	0.21	1.36
252	19	103	0.31	1.67
257	20	123	0.32	2.00
262	19	142	0.31	2.30
267	26	168	0.42	2.73
272	32	200	0.52	3.25
277	42	242	0.68	3.93
282	58	300	0.94	4.87
286	55	355	0.89	5.76
291	88	443	1.43	7.19
296	100	543	1.62	8.81
300	119	662	1.93	10.74
307	156	818	2.53	13.27
312	187	1005	3.03	16.31
317	258	1263	4.19	20.50
323	278	1541	4.51	25.01
329	319	1860	5.18	30.19
335	424	2284	6.88	37.07
341	436	2720	7.08	44.14
348	506	3226	8.21	52.35
355	499	3725	8.10	60.45
363	539	4264	8.75	69.20
372	483	4747	7.84	77.04
387	493	5240	8.00	85.04
397	359	5599	5.83	90.86
416	279	5878	4.53	95.39
449	175	6053	2.84	98.23
507	109	6162	1.77	100.00

Figure C.6.10 2018 STAAR Alternate 2 Grade 6 Reading
Frequency Distribution of Scale Scores
All Students



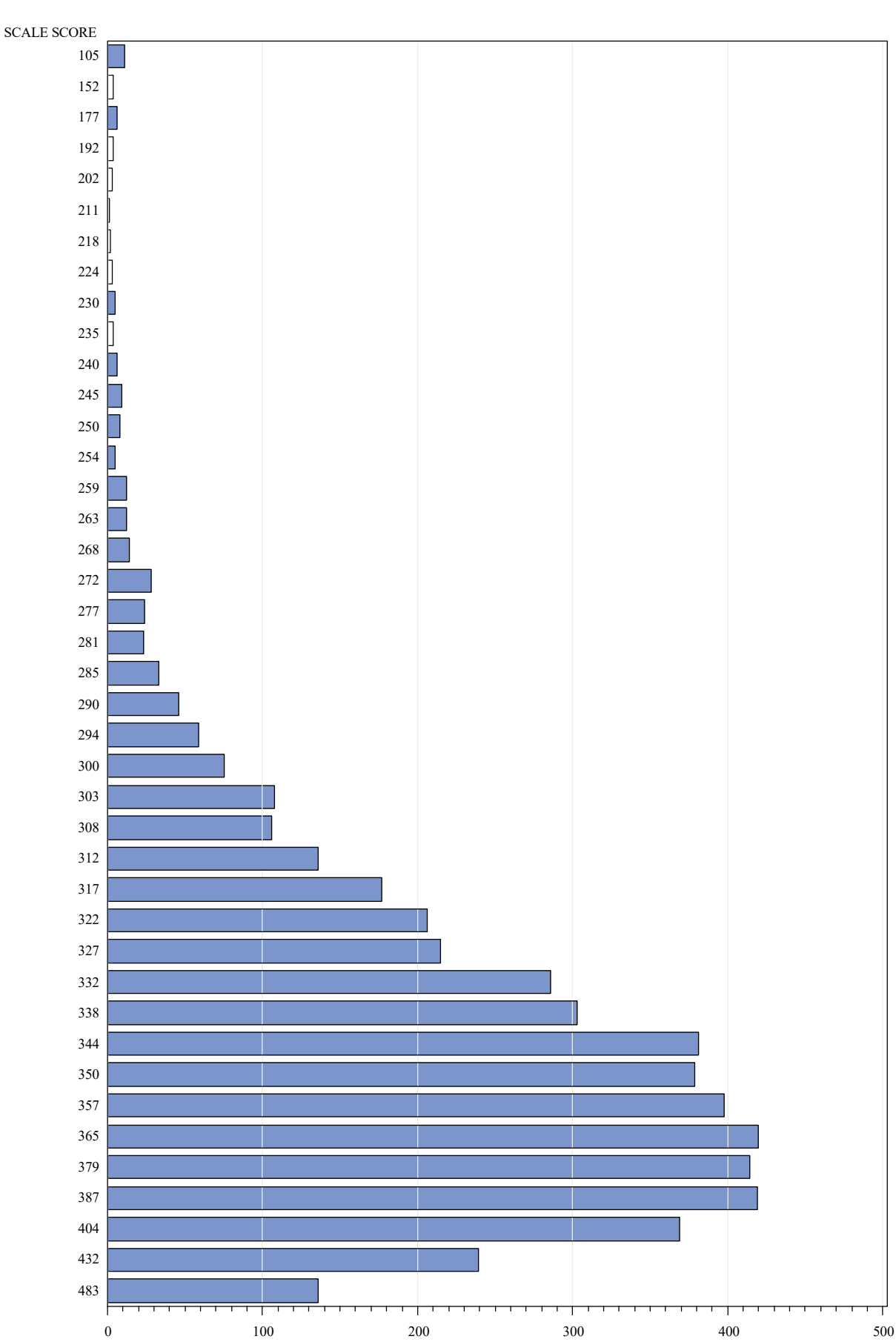
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	12	12	0.21	0.21
164	6	18	0.11	0.32
180	4	22	0.07	0.39
191	5	27	0.09	0.48
200	6	33	0.11	0.58
208	5	38	0.09	0.67
215	5	43	0.09	0.76
221	3	46	0.05	0.81
227	5	51	0.09	0.90
232	12	63	0.21	1.11
238	9	72	0.16	1.27
243	13	85	0.23	1.50
248	15	100	0.26	1.76
253	14	114	0.25	2.01
258	15	129	0.26	2.27
263	22	151	0.39	2.66
268	34	185	0.60	3.26
273	37	222	0.65	3.91
278	34	256	0.60	4.51
282	36	292	0.63	5.14
287	67	359	1.18	6.32
292	87	446	1.53	7.85
297	92	538	1.62	9.48
300	109	647	1.92	11.39
307	152	799	2.68	14.07
312	195	994	3.43	17.51
318	253	1247	4.46	21.96
323	259	1506	4.56	26.52
329	344	1850	6.06	32.58
334	387	2237	6.82	39.40
340	391	2628	6.89	46.28
347	412	3040	7.26	53.54
354	432	3472	7.61	61.15
362	431	3903	7.59	68.74
371	422	4325	7.43	76.17
381	402	4727	7.08	83.25
394	404	5131	7.12	90.37
413	284	5415	5.00	95.37
444	187	5602	3.29	98.66
497	76	5678	1.34	100.00

Figure C.6.11 2018 STAAR Alternate 2 Grade 7 Reading
Frequency Distribution of Scale Scores
All Students



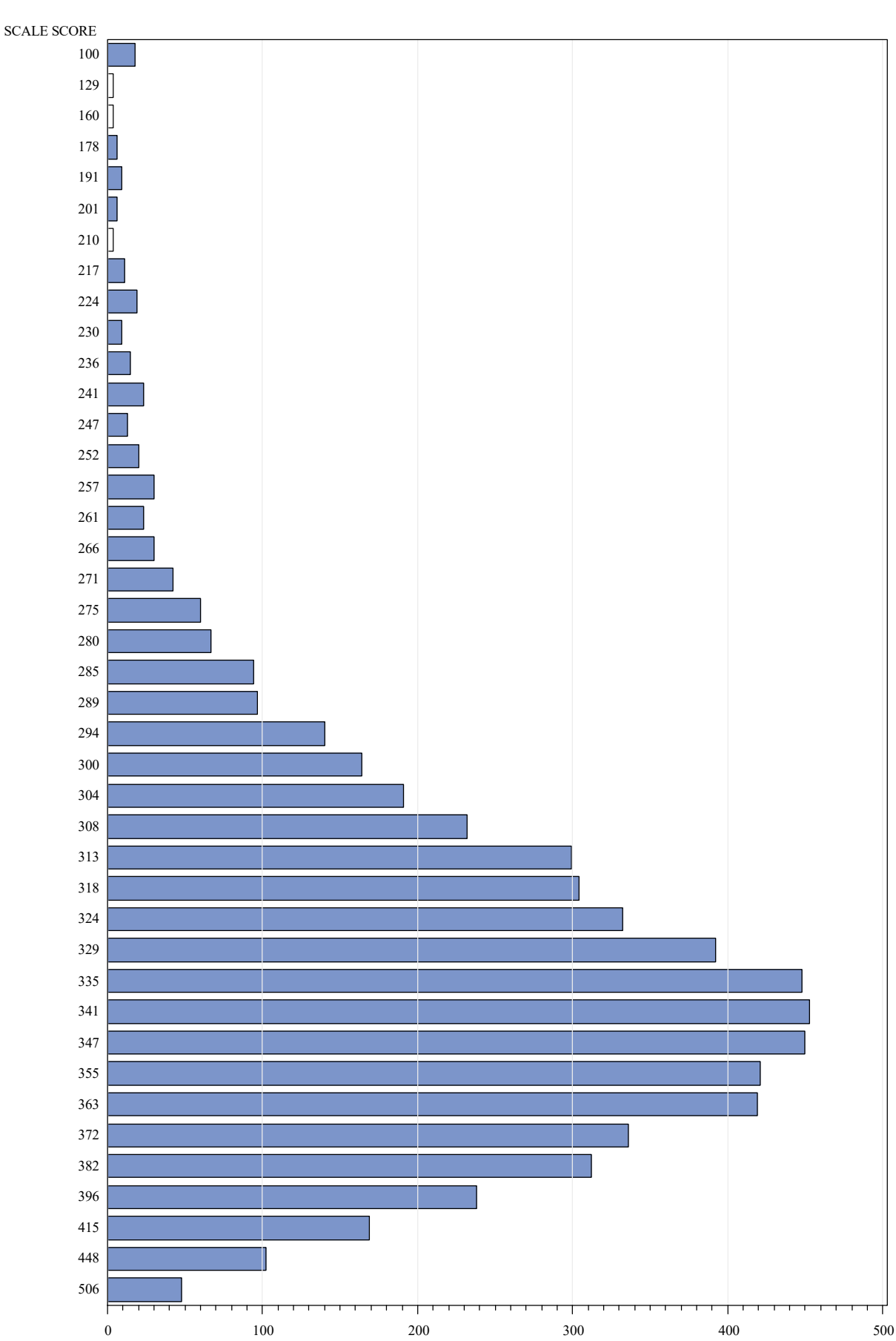
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	10	10	0.19	0.19
130	3	13	0.06	0.25
157	5	18	0.09	0.34
172	5	23	0.09	0.43
184	2	25	0.04	0.47
192	5	30	0.09	0.57
200	5	35	0.09	0.66
207	3	38	0.06	0.72
213	2	40	0.04	0.76
218	8	48	0.15	0.91
224	13	61	0.25	1.15
229	6	67	0.11	1.26
234	8	75	0.15	1.42
239	2	77	0.04	1.45
244	11	88	0.21	1.66
249	6	94	0.11	1.77
253	14	108	0.26	2.04
258	15	123	0.28	2.32
263	25	148	0.47	2.79
268	35	183	0.66	3.45
272	53	236	1.00	4.45
277	45	281	0.85	5.30
282	60	341	1.13	6.44
287	73	414	1.38	7.81
292	78	492	1.47	9.29
297	88	580	1.66	10.95
300	122	702	2.30	13.25
307	165	867	3.11	16.36
312	183	1050	3.45	19.82
317	206	1256	3.89	23.71
323	249	1505	4.70	28.41
329	287	1792	5.42	33.82
335	324	2116	6.12	39.94
342	354	2470	6.68	46.62
350	373	2843	7.04	53.66
359	432	3275	8.15	61.82
371	470	3745	8.87	70.69
383	462	4207	8.72	79.41
401	444	4651	8.38	87.79
432	382	5033	7.21	95.00
486	265	5298	5.00	100.00

Figure C.6.12 2018 STAAR Alternate 2 Grade 8 Reading
Frequency Distribution of Scale Scores
All Students



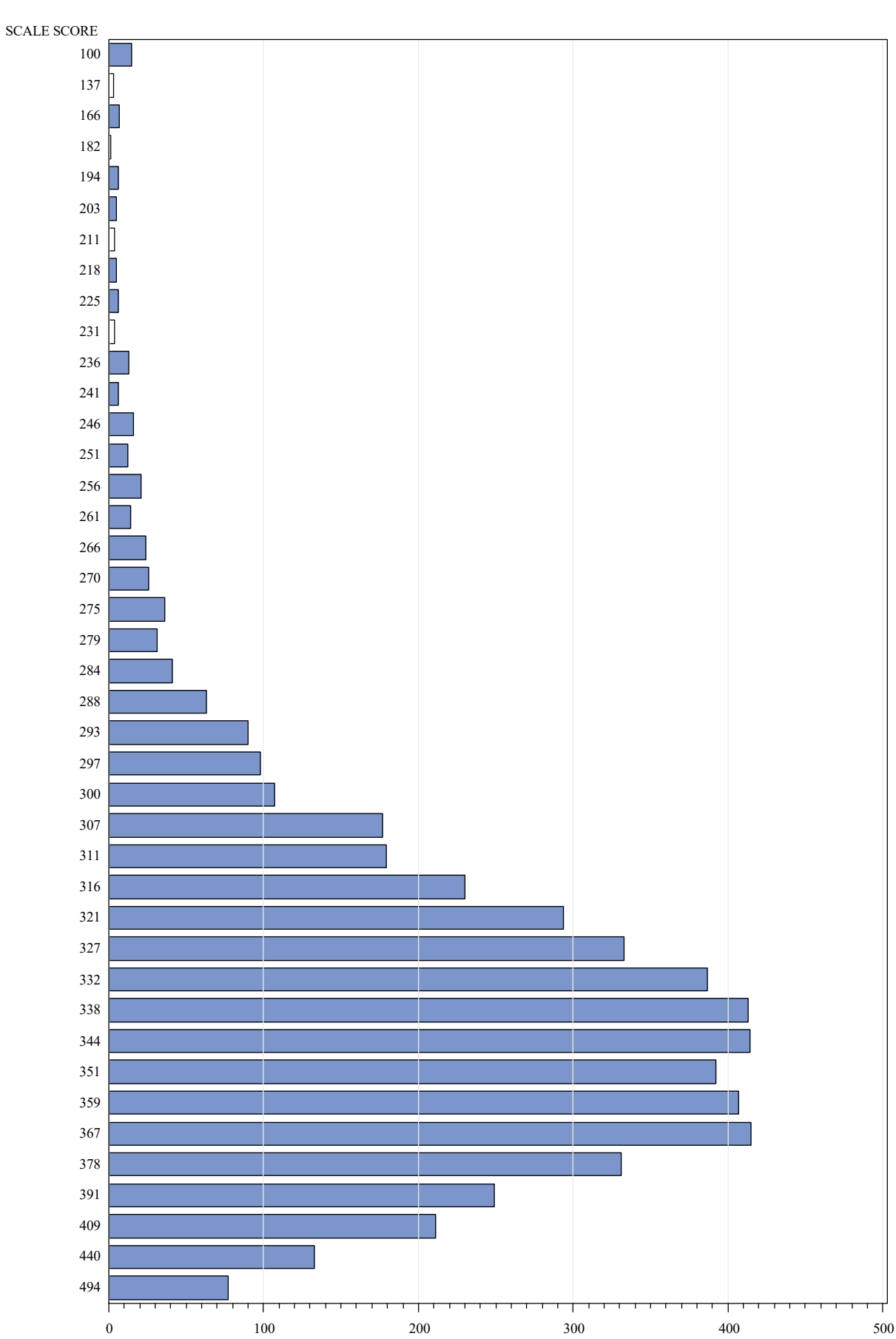
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
105	11	11	0.22	0.22
152	4	15	0.08	0.29
177	6	21	0.12	0.41
192	4	25	0.08	0.49
202	3	28	0.06	0.55
211	1	29	0.02	0.57
218	2	31	0.04	0.61
224	3	34	0.06	0.67
230	5	39	0.10	0.77
235	4	43	0.08	0.84
240	6	49	0.12	0.96
245	9	58	0.18	1.14
250	8	66	0.16	1.30
254	5	71	0.10	1.40
259	12	83	0.24	1.63
263	12	95	0.24	1.87
268	14	109	0.28	2.14
272	28	137	0.55	2.69
277	24	161	0.47	3.16
281	23	184	0.45	3.62
285	33	217	0.65	4.26
290	46	263	0.90	5.17
294	59	322	1.16	6.33
300	75	397	1.47	7.80
303	108	505	2.12	9.92
308	106	611	2.08	12.01
312	136	747	2.67	14.68
317	177	924	3.48	18.16
322	206	1130	4.05	22.20
327	215	1345	4.22	26.43
332	286	1631	5.62	32.05
338	303	1934	5.95	38.00
344	381	2315	7.49	45.49
350	379	2694	7.45	52.94
357	398	3092	7.82	60.76
365	420	3512	8.25	69.01
379	414	3926	8.14	77.15
387	419	4345	8.23	85.38
404	369	4714	7.25	92.63
432	239	4953	4.70	97.33
483	136	5089	2.67	100.00

Figure C.6.13 2018 STAAR Alternate 2 Grade 4 Writing
Frequency Distribution of Scale Scores
All Students



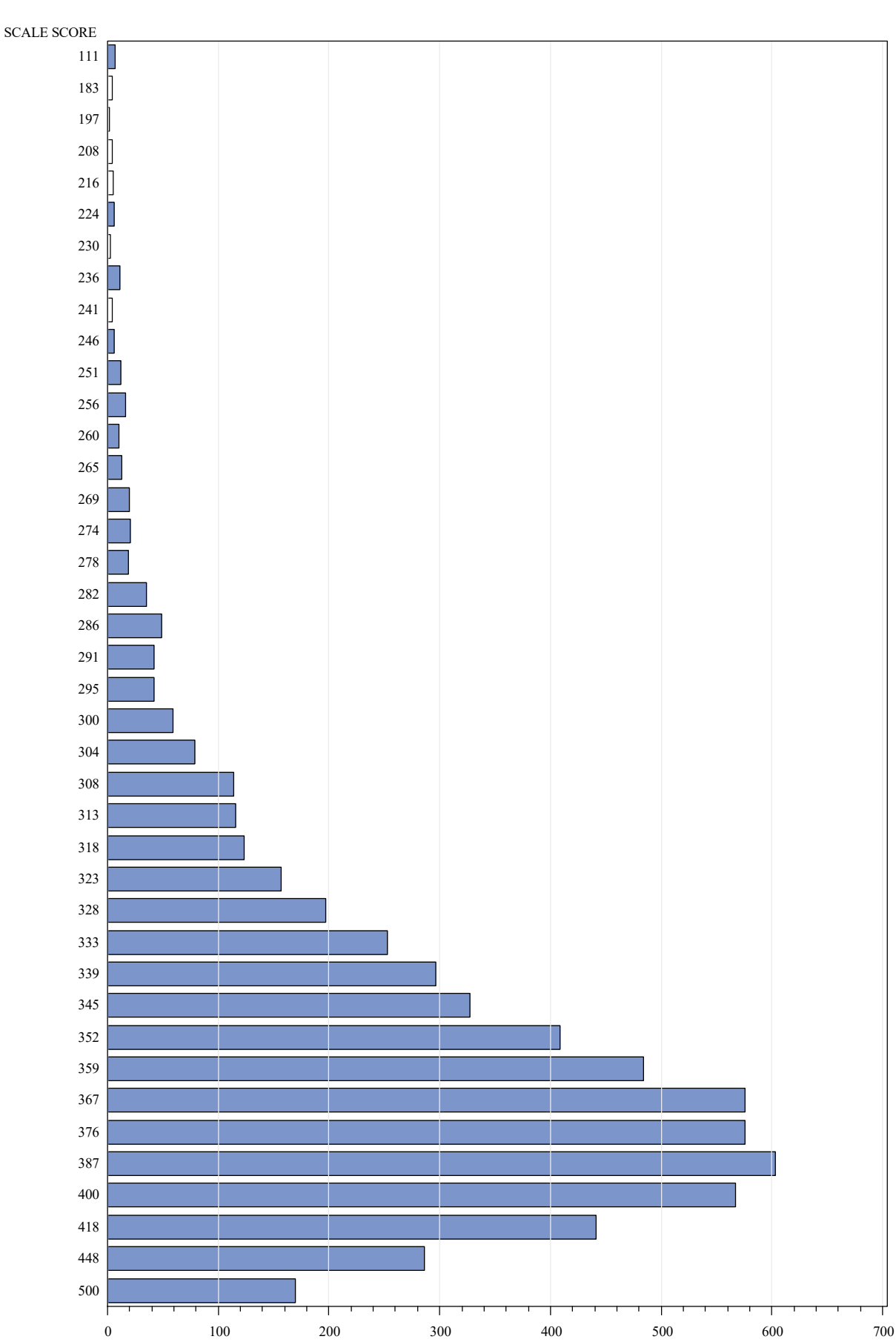
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	18	18	0.30	0.30
129	4	22	0.07	0.36
160	4	26	0.07	0.43
178	6	32	0.10	0.53
191	9	41	0.15	0.68
201	6	47	0.10	0.78
210	4	51	0.07	0.84
217	11	62	0.18	1.02
224	19	81	0.31	1.34
230	9	90	0.15	1.49
236	15	105	0.25	1.73
241	23	128	0.38	2.11
247	13	141	0.21	2.33
252	20	161	0.33	2.66
257	30	191	0.50	3.15
261	23	214	0.38	3.53
266	30	244	0.50	4.03
271	42	286	0.69	4.72
275	60	346	0.99	5.72
280	67	413	1.11	6.82
285	94	507	1.55	8.37
289	97	604	1.60	9.98
294	140	744	2.31	12.29
300	164	908	2.71	15.00
304	191	1099	3.15	18.15
308	232	1331	3.83	21.99
313	299	1630	4.94	26.92
318	304	1934	5.02	31.95
324	332	2266	5.48	37.43
329	392	2658	6.48	43.90
335	448	3106	7.40	51.30
341	453	3559	7.48	58.79
347	450	4009	7.43	66.22
355	421	4430	6.95	73.17
363	419	4849	6.92	80.10
372	336	5185	5.55	85.65
382	312	5497	5.15	90.80
396	238	5735	3.93	94.73
415	169	5904	2.79	97.52
448	102	6006	1.68	99.21
506	48	6054	0.79	100.00

Figure C.6.14 2018 STAAR Alternate 2 Grade 7 Writing
Frequency Distribution of Scale Scores
All Students



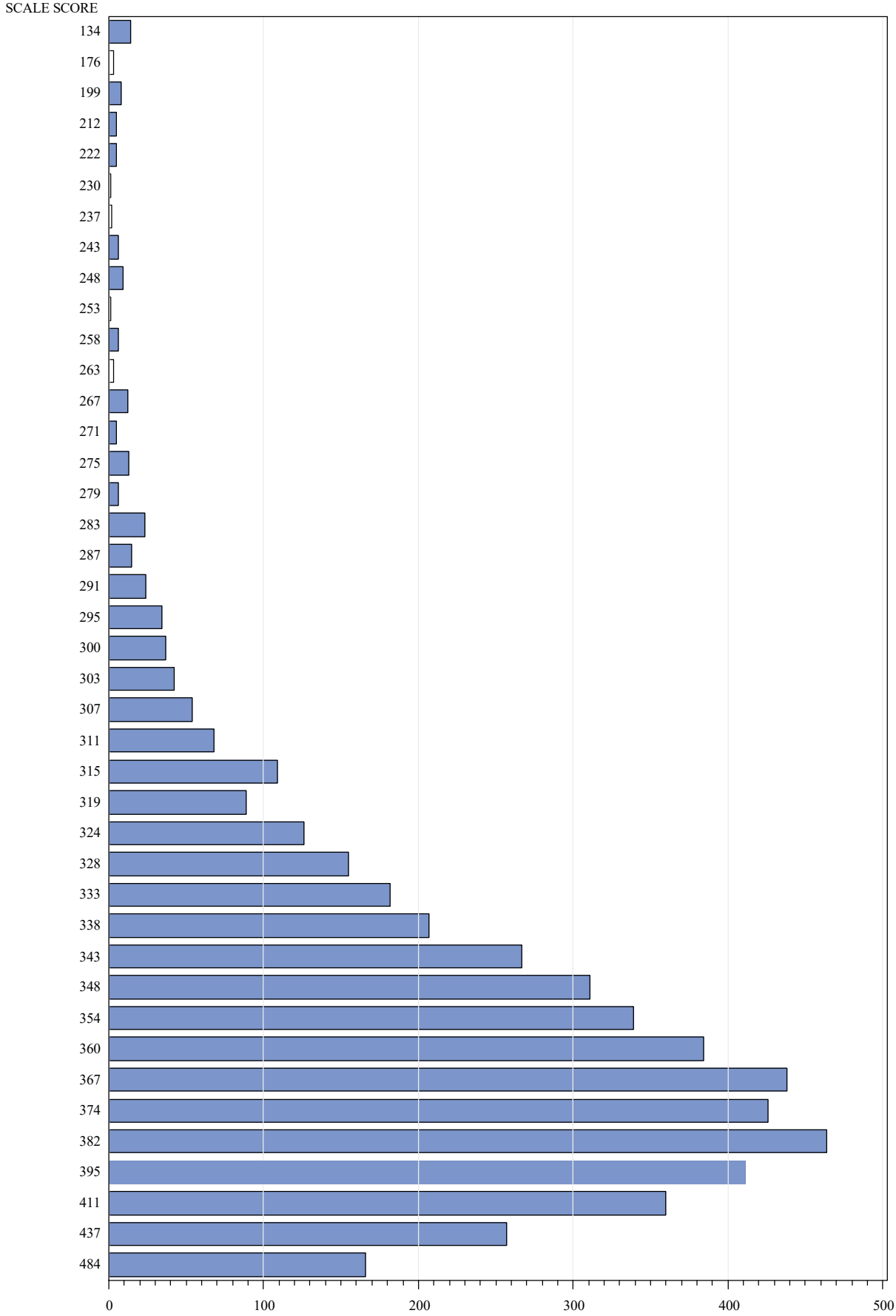
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	15	15	0.28	0.28
137	3	18	0.06	0.34
166	7	25	0.13	0.47
182	1	26	0.02	0.49
194	6	32	0.11	0.60
203	5	37	0.09	0.70
211	4	41	0.08	0.77
218	5	46	0.09	0.87
225	6	52	0.11	0.98
231	4	56	0.08	1.06
236	13	69	0.25	1.30
241	6	75	0.11	1.42
246	16	91	0.30	1.72
251	12	103	0.23	1.94
256	21	124	0.40	2.34
261	14	138	0.26	2.61
266	24	162	0.45	3.06
270	26	188	0.49	3.55
275	36	224	0.68	4.23
279	31	255	0.59	4.81
284	41	296	0.77	5.59
288	63	359	1.19	6.78
293	90	449	1.70	8.48
297	98	547	1.85	10.33
300	107	654	2.02	12.35
307	177	831	3.34	15.69
311	179	1010	3.38	19.07
316	230	1240	4.34	23.41
321	294	1534	5.55	28.97
327	333	1867	6.29	35.25
332	387	2254	7.31	42.56
338	413	2667	7.80	50.36
344	414	3081	7.82	58.18
351	392	3473	7.40	65.58
359	407	3880	7.69	73.26
367	415	4295	7.84	81.10
378	331	4626	6.25	87.35
391	249	4875	4.70	92.05
409	211	5086	3.98	96.03
440	133	5219	2.51	98.55
494	77	5296	1.45	100.00

Figure C.6.15 2018 STAAR Alternate 2 Grade 5 Science
Frequency Distribution of Scale Scores
All Students



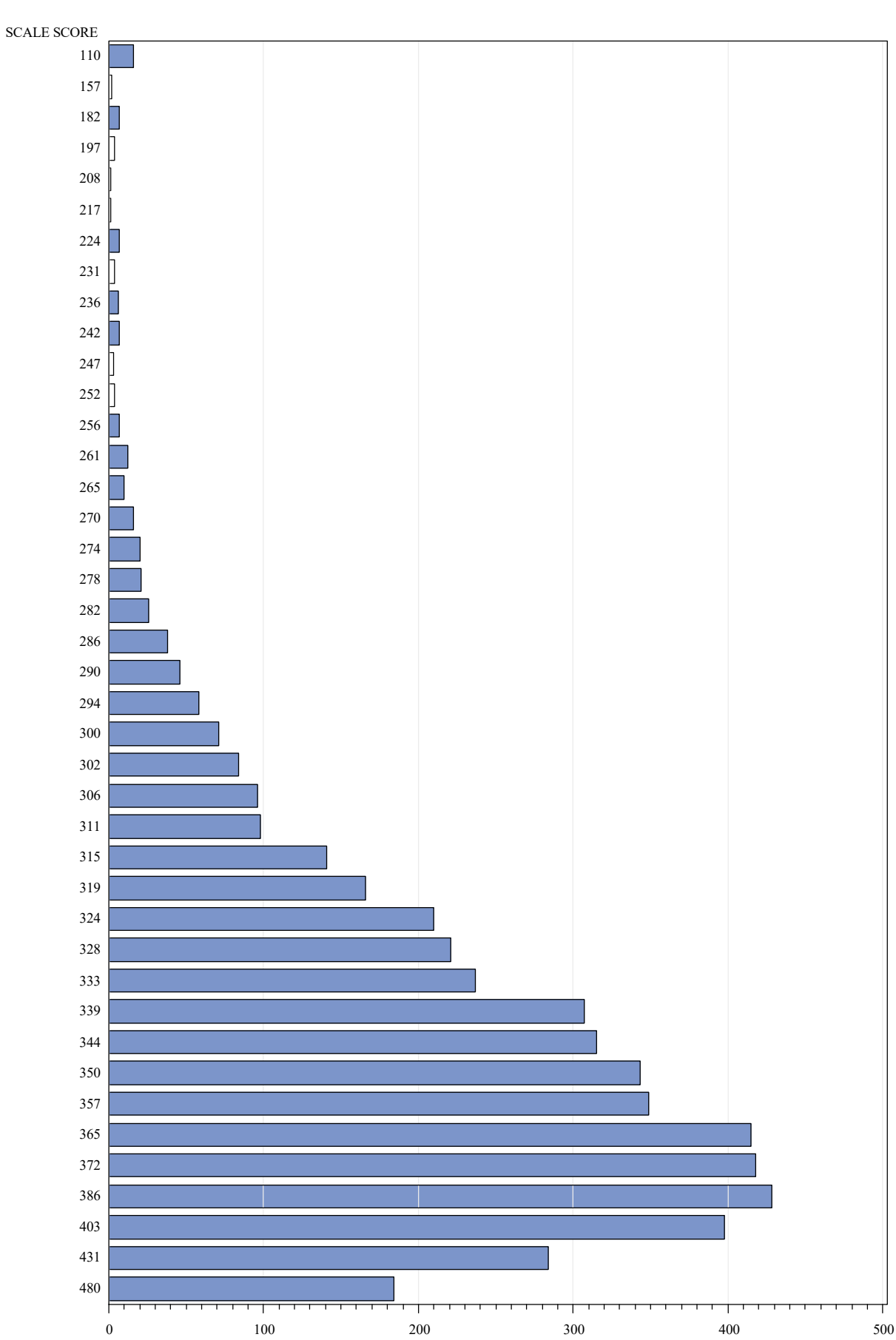
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
111	7	7	0.11	0.11
183	4	11	0.06	0.18
197	2	13	0.03	0.21
208	4	17	0.06	0.28
216	5	22	0.08	0.36
224	6	28	0.10	0.45
230	3	31	0.05	0.50
236	11	42	0.18	0.68
241	4	46	0.06	0.75
246	6	52	0.10	0.84
251	12	64	0.19	1.04
256	16	80	0.26	1.30
260	10	90	0.16	1.46
265	13	103	0.21	1.67
269	20	123	0.32	2.00
274	21	144	0.34	2.34
278	19	163	0.31	2.64
282	35	198	0.57	3.21
286	49	247	0.79	4.01
291	42	289	0.68	4.69
295	42	331	0.68	5.37
300	59	390	0.96	6.33
304	79	469	1.28	7.61
308	114	583	1.85	9.46
313	116	699	1.88	11.34
318	123	822	2.00	13.34
323	157	979	2.55	15.88
328	197	1176	3.20	19.08
333	253	1429	4.10	23.18
339	296	1725	4.80	27.99
345	327	2052	5.30	33.29
352	409	2461	6.64	39.93
359	484	2945	7.85	47.78
367	576	3521	9.34	57.12
376	576	4097	9.34	66.47
387	603	4700	9.78	76.25
400	567	5267	9.20	85.45
418	441	5708	7.15	92.60
448	286	5994	4.64	97.24
500	170	6164	2.76	100.00

Figure C.6.16 2018 STAAR Alternate 2 Grade 8 Science
Frequency Distribution of Scale Scores
All Students



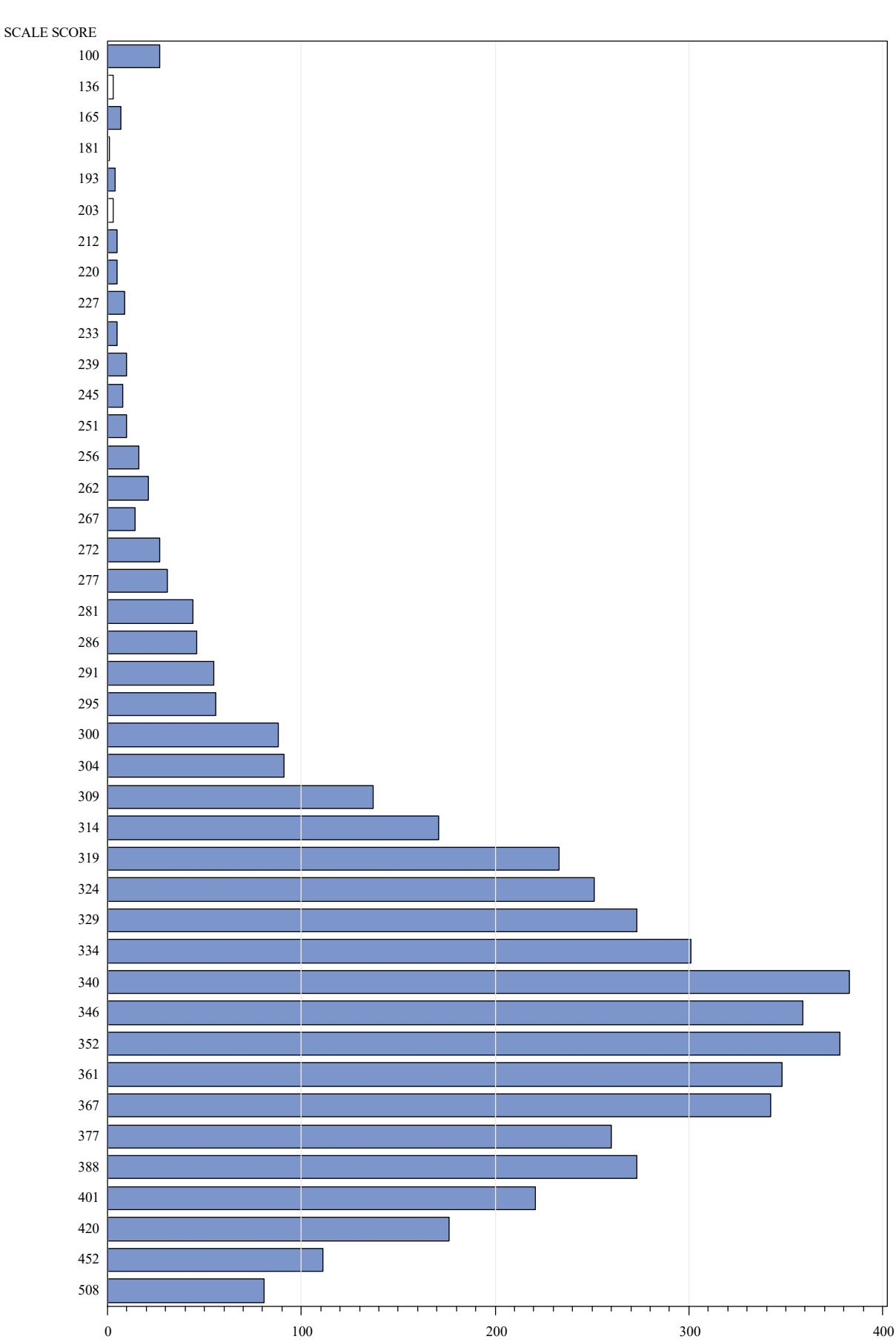
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
134	14	14	0.28	0.28
176	3	17	0.06	0.33
199	8	25	0.16	0.49
212	5	30	0.10	0.59
222	5	35	0.10	0.69
230	1	36	0.02	0.71
237	2	38	0.04	0.75
243	6	44	0.12	0.86
248	9	53	0.18	1.04
253	1	54	0.02	1.06
258	6	60	0.12	1.18
263	3	63	0.06	1.24
267	12	75	0.24	1.47
271	5	80	0.10	1.57
275	13	93	0.26	1.83
279	6	99	0.12	1.95
283	23	122	0.45	2.40
287	15	137	0.29	2.69
291	24	161	0.47	3.16
295	34	195	0.67	3.83
300	37	232	0.73	4.56
303	42	274	0.83	5.39
307	54	328	1.06	6.45
311	68	396	1.34	7.78
315	109	505	2.14	9.93
319	89	594	1.75	11.68
324	126	720	2.48	14.15
328	155	875	3.05	17.20
333	182	1057	3.58	20.78
338	207	1264	4.07	24.85
343	267	1531	5.25	30.10
348	311	1842	6.11	36.21
354	339	2181	6.66	42.87
360	384	2565	7.55	50.42
367	438	3003	8.61	59.03
374	426	3429	8.37	67.41
382	464	3893	9.12	76.53
395	411	4304	8.08	84.61
411	360	4664	7.08	91.68
437	257	4921	5.05	96.74
484	166	5087	3.26	100.00

Figure C.6.17 2018 STAAR Alternate 2 Grade 8 Social Studies
Frequency Distribution of Scale Scores
All Students



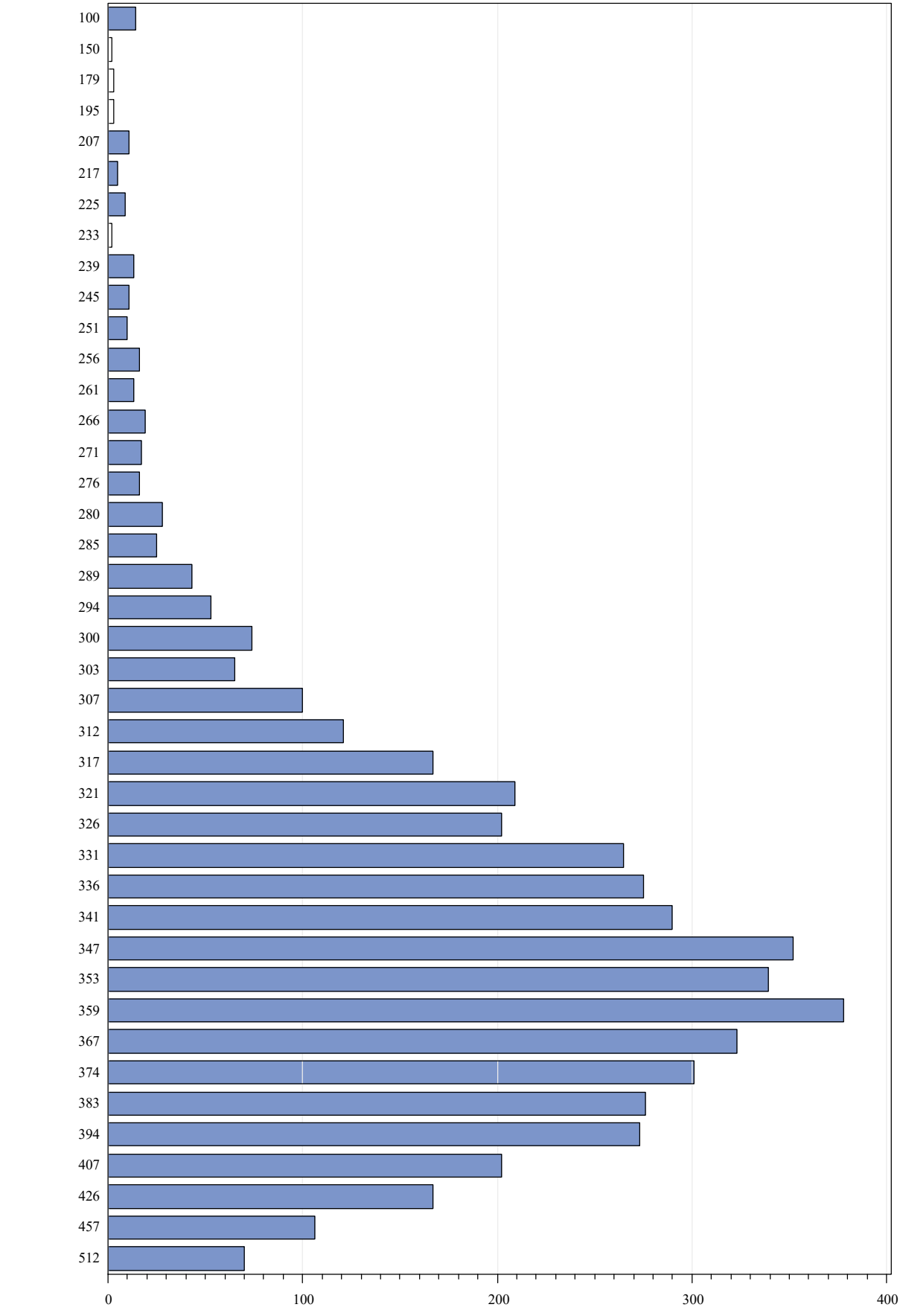
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
110	16	16	0.31	0.31
157	2	18	0.04	0.35
182	7	25	0.14	0.49
197	4	29	0.08	0.57
208	1	30	0.02	0.59
217	1	31	0.02	0.61
224	7	38	0.14	0.75
231	4	42	0.08	0.83
236	6	48	0.12	0.94
242	7	55	0.14	1.08
247	3	58	0.06	1.14
252	4	62	0.08	1.22
256	7	69	0.14	1.36
261	12	81	0.24	1.59
265	10	91	0.20	1.79
270	16	107	0.31	2.11
274	20	127	0.39	2.50
278	21	148	0.41	2.91
282	26	174	0.51	3.42
286	38	212	0.75	4.17
290	46	258	0.91	5.08
294	58	316	1.14	6.22
300	71	387	1.40	7.62
302	84	471	1.65	9.27
306	96	567	1.89	11.16
311	98	665	1.93	13.09
315	141	806	2.78	15.86
319	166	972	3.27	19.13
324	210	1182	4.13	23.26
328	221	1403	4.35	27.61
333	237	1640	4.66	32.28
339	307	1947	6.04	38.32
344	315	2262	6.20	44.52
350	343	2605	6.75	51.27
357	349	2954	6.87	58.14
365	415	3369	8.17	66.31
372	418	3787	8.23	74.53
386	428	4215	8.42	82.96
403	398	4613	7.83	90.79
431	284	4897	5.59	96.38
480	184	5081	3.62	100.00

Figure C.6.18 2018 STAAR Alternate 2 EOC Algebra I
Frequency Distribution of Scale Scores
All Students



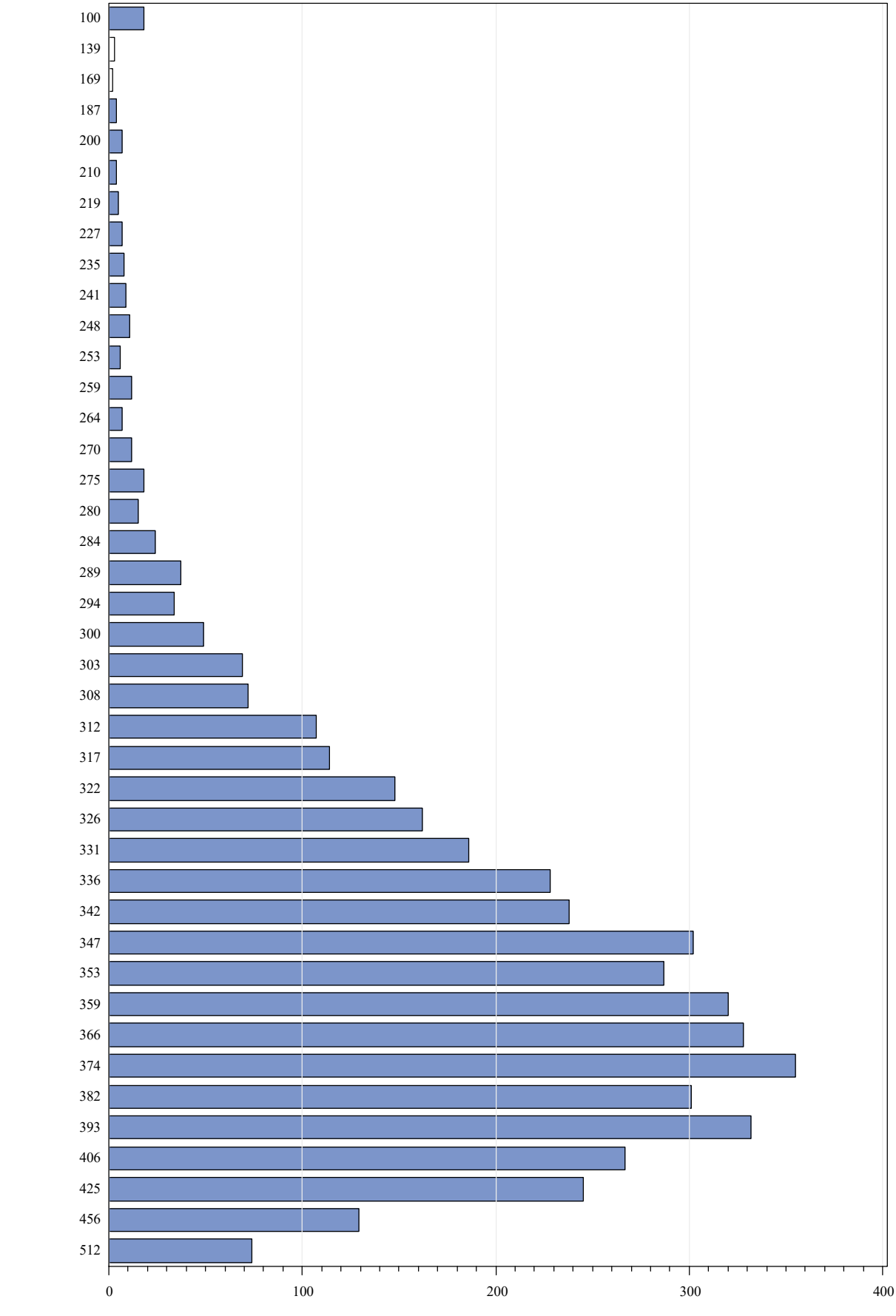
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	27	27	0.55	0.55
136	3	30	0.06	0.61
165	7	37	0.14	0.76
181	1	38	0.02	0.78
193	4	42	0.08	0.86
203	3	45	0.06	0.92
212	5	50	0.10	1.02
220	5	55	0.10	1.13
227	9	64	0.18	1.31
233	5	69	0.10	1.41
239	10	79	0.20	1.62
245	8	87	0.16	1.78
251	10	97	0.20	1.99
256	16	113	0.33	2.31
262	21	134	0.43	2.74
267	14	148	0.29	3.03
272	27	175	0.55	3.58
277	31	206	0.63	4.22
281	44	250	0.90	5.12
286	46	296	0.94	6.06
291	55	351	1.13	7.19
295	56	407	1.15	8.33
300	88	495	1.80	10.14
304	91	586	1.86	12.00
309	137	723	2.81	14.80
314	171	894	3.50	18.30
319	233	1127	4.77	23.08
324	251	1378	5.14	28.21
329	273	1651	5.59	33.80
334	301	1952	6.16	39.97
340	383	2335	7.84	47.81
346	359	2694	7.35	55.16
352	378	3072	7.74	62.90
361	348	3420	7.13	70.02
367	342	3762	7.00	77.03
377	260	4022	5.32	82.35
388	273	4295	5.59	87.94
401	221	4516	4.52	92.47
420	176	4692	3.60	96.07
452	111	4803	2.27	98.34
508	81	4884	1.66	100.00

Figure C.6.19 2018 STAAR Alternate 2 EOC English I
Frequency Distribution of Scale Scores
All Students



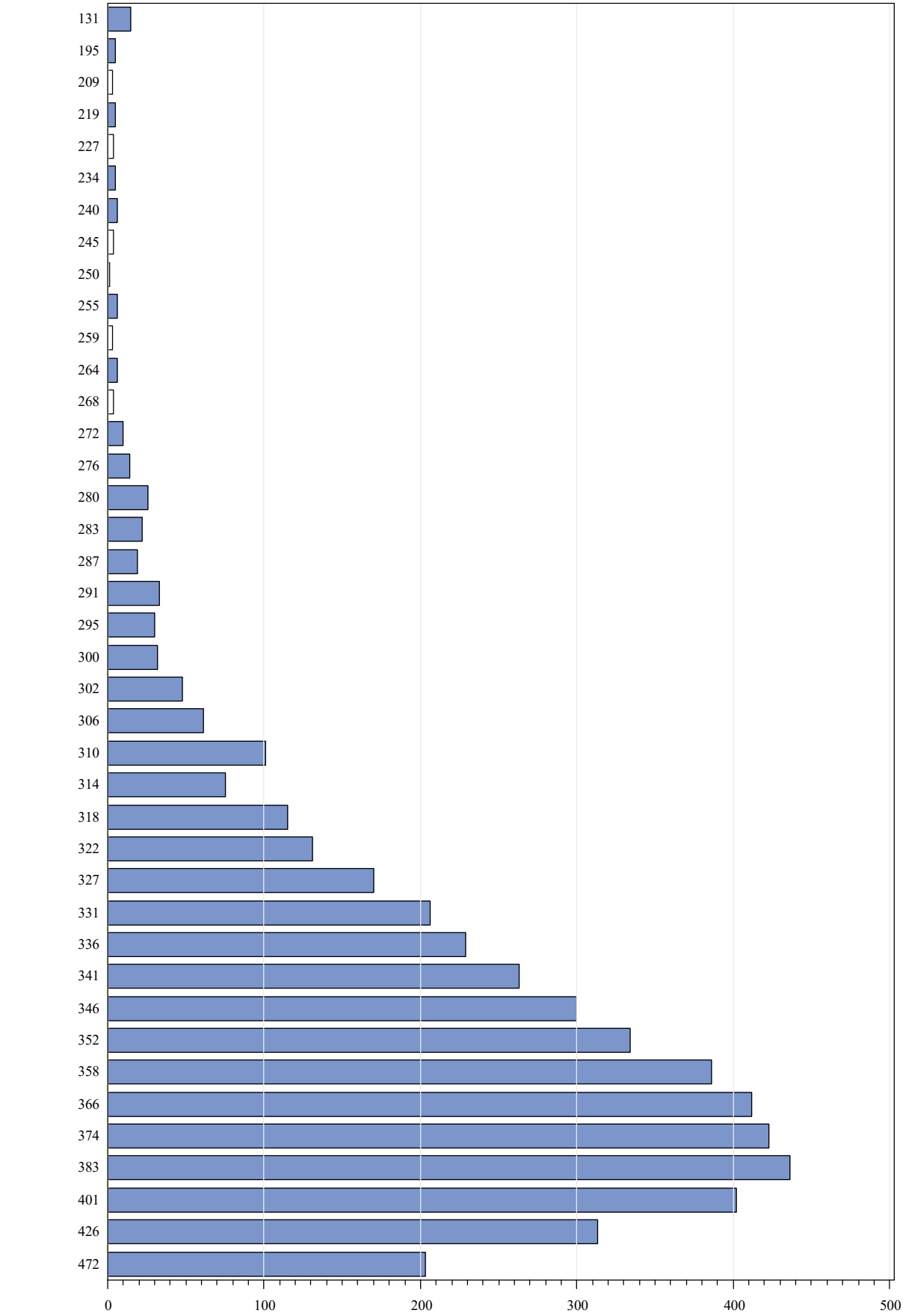
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	14	14	0.29	0.29
150	2	16	0.04	0.33
179	3	19	0.06	0.39
195	3	22	0.06	0.45
207	11	33	0.23	0.68
217	5	38	0.10	0.78
225	9	47	0.18	0.97
233	2	49	0.04	1.01
239	13	62	0.27	1.27
245	11	73	0.23	1.50
251	10	83	0.21	1.71
256	16	99	0.33	2.03
261	13	112	0.27	2.30
266	19	131	0.39	2.69
271	17	148	0.35	3.04
276	16	164	0.33	3.37
280	28	192	0.58	3.94
285	25	217	0.51	4.46
289	43	260	0.88	5.34
294	53	313	1.09	6.43
300	74	387	1.52	7.95
303	65	452	1.34	9.29
307	100	552	2.05	11.34
312	121	673	2.49	13.82
317	167	840	3.43	17.26
321	209	1049	4.29	21.55
326	202	1251	4.15	25.70
331	265	1516	5.44	31.14
336	275	1791	5.65	36.79
341	290	2081	5.96	42.75
347	352	2433	7.23	49.98
353	339	2772	6.96	56.94
359	378	3150	7.76	64.71
367	323	3473	6.64	71.34
374	301	3774	6.18	77.53
383	276	4050	5.67	83.20
394	273	4323	5.61	88.80
407	202	4525	4.15	92.95
426	167	4692	3.43	96.38
457	106	4798	2.18	98.56
512	70	4868	1.44	100.00

Figure C.6.20 2018 STAAR Alternate 2 EOC English II
Frequency Distribution of Scale Scores
All Students



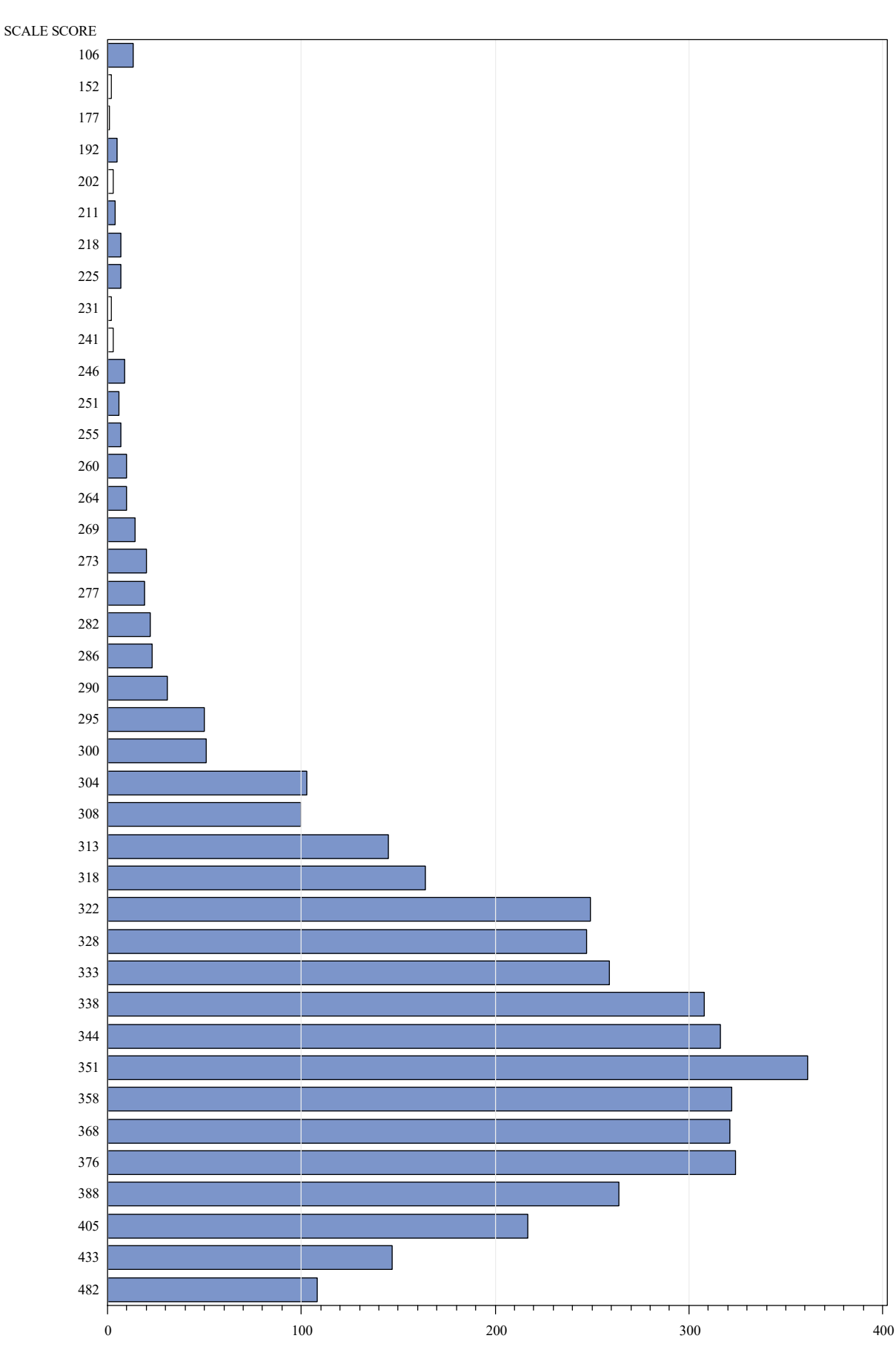
SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	18	18	0.40	0.40
139	3	21	0.07	0.46
169	2	23	0.04	0.50
187	4	27	0.09	0.59
200	7	34	0.15	0.75
210	4	38	0.09	0.83
219	5	43	0.11	0.94
227	7	50	0.15	1.10
235	8	58	0.18	1.27
241	9	67	0.20	1.47
248	11	78	0.24	1.71
253	6	84	0.13	1.84
259	12	96	0.26	2.11
264	7	103	0.15	2.26
270	12	115	0.26	2.52
275	18	133	0.40	2.92
280	15	148	0.33	3.25
284	24	172	0.53	3.78
289	37	209	0.81	4.59
294	34	243	0.75	5.33
300	49	292	1.08	6.41
303	69	361	1.51	7.92
308	72	433	1.58	9.50
312	107	540	2.35	11.85
317	114	654	2.50	14.35
322	148	802	3.25	17.60
326	162	964	3.56	21.16
331	186	1150	4.08	25.24
336	228	1378	5.00	30.25
342	238	1616	5.22	35.47
347	302	1918	6.63	42.10
353	287	2205	6.30	48.40
359	320	2525	7.02	55.42
366	328	2853	7.20	62.62
374	355	3208	7.79	70.41
382	301	3509	6.61	77.02
393	332	3841	7.29	84.31
406	267	4108	5.86	90.17
425	245	4353	5.38	95.54
456	129	4482	2.83	98.38
512	74	4556	1.62	100.00

Figure C.6.21 2018 STAAR Alternate 2 EOC Biology
Frequency Distribution of Scale Scores
All Students



SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
131	15	15	0.31	0.31
195	5	20	0.10	0.41
209	3	23	0.06	0.47
219	5	28	0.10	0.58
227	4	32	0.08	0.66
234	5	37	0.10	0.76
240	6	43	0.12	0.88
245	4	47	0.08	0.97
250	1	48	0.02	0.99
255	6	54	0.12	1.11
259	3	57	0.06	1.17
264	6	63	0.12	1.30
268	4	67	0.08	1.38
272	10	77	0.21	1.58
276	14	91	0.29	1.87
280	26	117	0.53	2.41
283	22	139	0.45	2.86
287	19	158	0.39	3.25
291	33	191	0.68	3.93
295	30	221	0.62	4.55
300	32	253	0.66	5.20
302	48	301	0.99	6.19
306	61	362	1.25	7.45
310	101	463	2.08	9.52
314	75	538	1.54	11.07
318	115	653	2.37	13.43
322	131	784	2.69	16.13
327	170	954	3.50	19.63
331	206	1160	4.24	23.86
336	229	1389	4.71	28.57
341	263	1652	5.41	33.98
346	300	1952	6.17	40.16
352	334	2286	6.87	47.03
358	386	2672	7.94	54.97
366	412	3084	8.48	63.44
374	423	3507	8.70	72.15
383	436	3943	8.97	81.11
401	402	4345	8.27	89.38
426	313	4658	6.44	95.82
472	203	4861	4.18	100.00

Figure C.6.22 2018 STAAR Alternate 2 EOC U.S. History
Frequency Distribution of Scale Scores
All Students



SCALE SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
106	13	13	0.30	0.30
152	2	15	0.05	0.35
177	1	16	0.02	0.37
192	5	21	0.12	0.49
202	3	24	0.07	0.56
211	4	28	0.09	0.66
218	7	35	0.16	0.82
225	7	42	0.16	0.98
231	2	44	0.05	1.03
241	3	47	0.07	1.10
246	9	56	0.21	1.31
251	6	62	0.14	1.45
255	7	69	0.16	1.61
260	10	79	0.23	1.85
264	10	89	0.23	2.08
269	14	103	0.33	2.41
273	20	123	0.47	2.88
277	19	142	0.44	3.32
282	22	164	0.51	3.84
286	23	187	0.54	4.38
290	31	218	0.73	5.10
295	50	268	1.17	6.27
300	51	319	1.19	7.46
304	103	422	2.41	9.87
308	100	522	2.34	12.21
313	145	667	3.39	15.61
318	164	831	3.84	19.44
322	249	1080	5.83	25.27
328	247	1327	5.78	31.05
333	259	1586	6.06	37.11
338	308	1894	7.21	44.31
344	316	2210	7.39	51.71
351	361	2571	8.45	60.15
358	322	2893	7.53	67.69
368	321	3214	7.51	75.20
376	324	3538	7.58	82.78
388	264	3802	6.18	88.96
405	217	4019	5.08	94.03
433	147	4166	3.44	97.47
482	108	4274	2.53	100.00