STAAR Alternate 2
2017 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 Alternate 2 2017 Score Distributions and Statistics by Content Area and Grade") of Appendix C. Definition 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.

$$SD = \sqrt{\frac{\sum_{i=1}^{N}\left(x_i - \bar{x}\right)^2}{N-1}}$$

where x_i is the score for student i, $\bar{x}$ is the mean score and N is the total number of students that 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.

$$Skewness = \frac{N}{(N-1)(N-2)} \sum_{i=1}^{N} \left(\frac{x_i - \bar{x}}{s_x} \right)^3$$

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 that 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.

$$Kurtosis = \frac{N(N+1)}{(N-1)(N-2)(N-3)} \sum_{i=1}^{N} \left(\frac{x_i - \bar{x}}{s_x} \right)^4 - \frac{3(N-1)^2}{(N-2)(N-3)}$$

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 that took the assessment.

Frequency Distributions

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

Cumulative Frequency (CUM FREQ). This is the number of students that 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 that 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 that 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.

Scale Score Descriptive Statistics for 2017 STAAR Alternate 2 Grades 3–8 Assessments

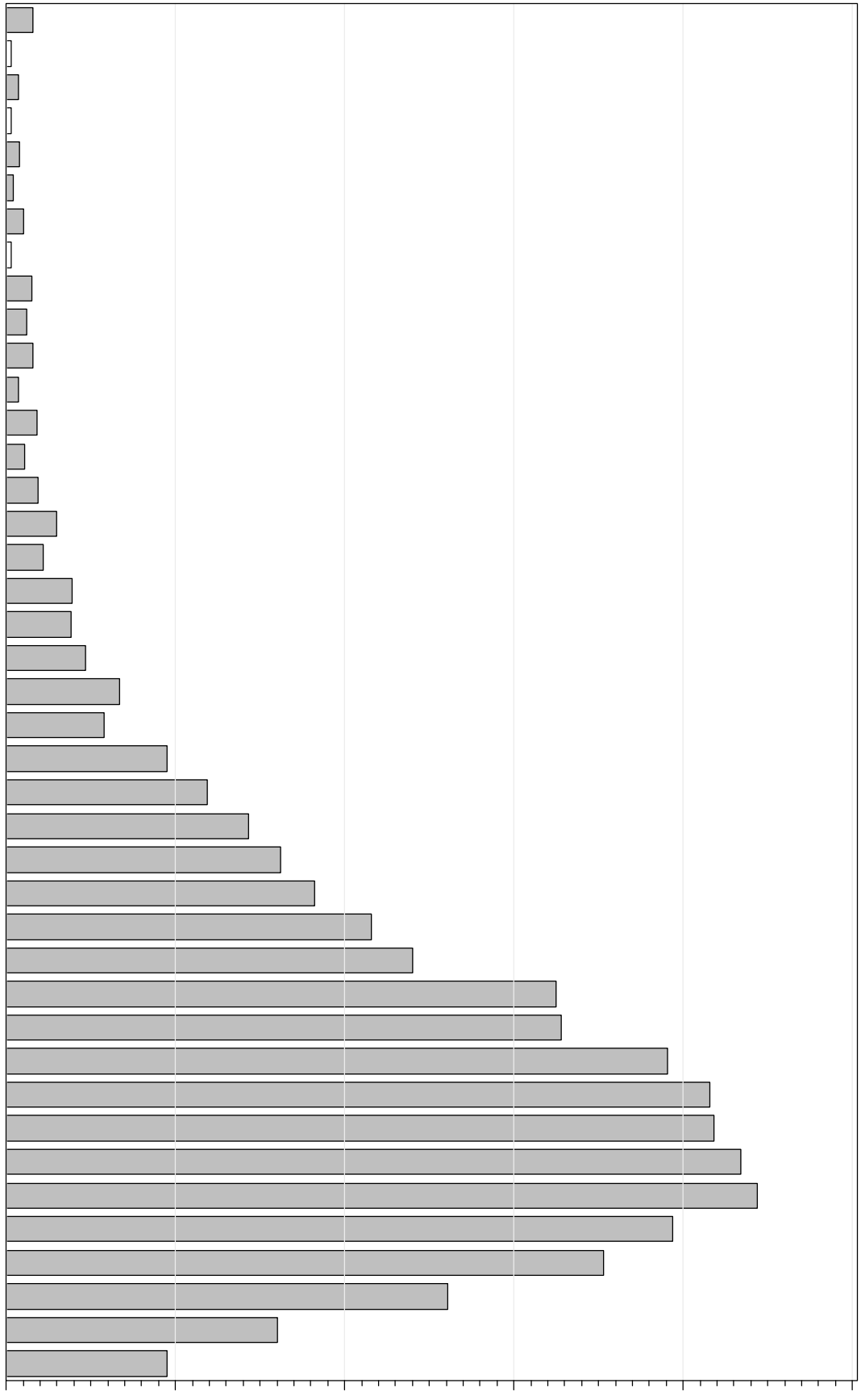
Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
GRADE 3 MATHEMATICS	5629	353.65	354	375	389	44	45.20	2042.97	-0.3323	3.8551
GRADE 4 MATHEMATICS	5757	359.00	354	360	367	54	45.02	2026.51	-0.1344	3.8534
GRADE 5 MATHEMATICS	5583	358.69	357	370	383	43	45.57	2076.98	-0.1155	3.7496
GRADE 6 MATHEMATICS	5181	360.06	354	378	420	57	50.53	2553.67	-0.0812	3.4577
GRADE 7 MATHEMATICS	4998	358.53	357	375	402	50	49.18	2418.20	-0.0531	3.8676
GRADE 8 MATHEMATICS	4682	349.74	345	360	394	57	51.09	2609.85	0.0088	3.2030
GRADE 3 READING	5626	341.04	340	346	377	48	43.64	1904.75	-0.3730	4.1112
GRADE 4 READING	5750	347.61	346	372	386	50	47.41	2248.09	-0.1543	3.3575
GRADE 5 READING	5583	348.55	351	351	412	43	46.44	2156.31	-0.1422	3.8741
GRADE 6 READING	5178	346.03	348	365	394	43	45.99	2115.21	0.0365	3.5755
GRADE 7 READING	5003	343.67	344	351	396	52	45.51	2070.96	-0.3929	4.8329
GRADE 8 READING	4685	348.19	344	351	386	57	46.17	2132.03	-0.1094	3.4711
GRADE 4 WRITING	5740	336.73	335	347	403	50	44.31	1963.11	-0.4888	5.7169
GRADE 7 WRITING	4999	337.97	339	353	387	46	44.87	2013.24	-0.3382	5.1515
GRADE 5 SCIENCE	5584	372.29	370	418	386	62	53.58	2870.84	0.0551	1.5644
GRADE 8 SCIENCE	4680	362.07	361	361	354	43	42.14	1775.49	-0.2600	4.1127
GRADE 8 SOCIAL STUDIES	4681	351.18	350	363	383	43	42.44	1800.81	-0.4162	5.7089

Scale Score Descriptive Statistics for 2017 STAAR Alternate 2 EOC Assessments

Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
ALGEBRA I	4616	348.30	345	366	401	50	48.96	2396.91	-0.4404	4.7729
ENGLISH I	4606	350.17	353	367	406	52	47.52	2257.81	-0.4646	4.8758
ENGLISH II	4237	356.25	355	361	406	46	49.99	2498.95	-0.0776	4.2653
BIOLOGY	4415	359.47	359	401	348	51	48.48	2350.01	-0.2851	3.0448
U.S. HISTORY	3615	347.90	344	359	375	48	49.57	2456.85	-0.2293	3.5679

FREQUENCY DISTRIBUTION - SCALE SCORES

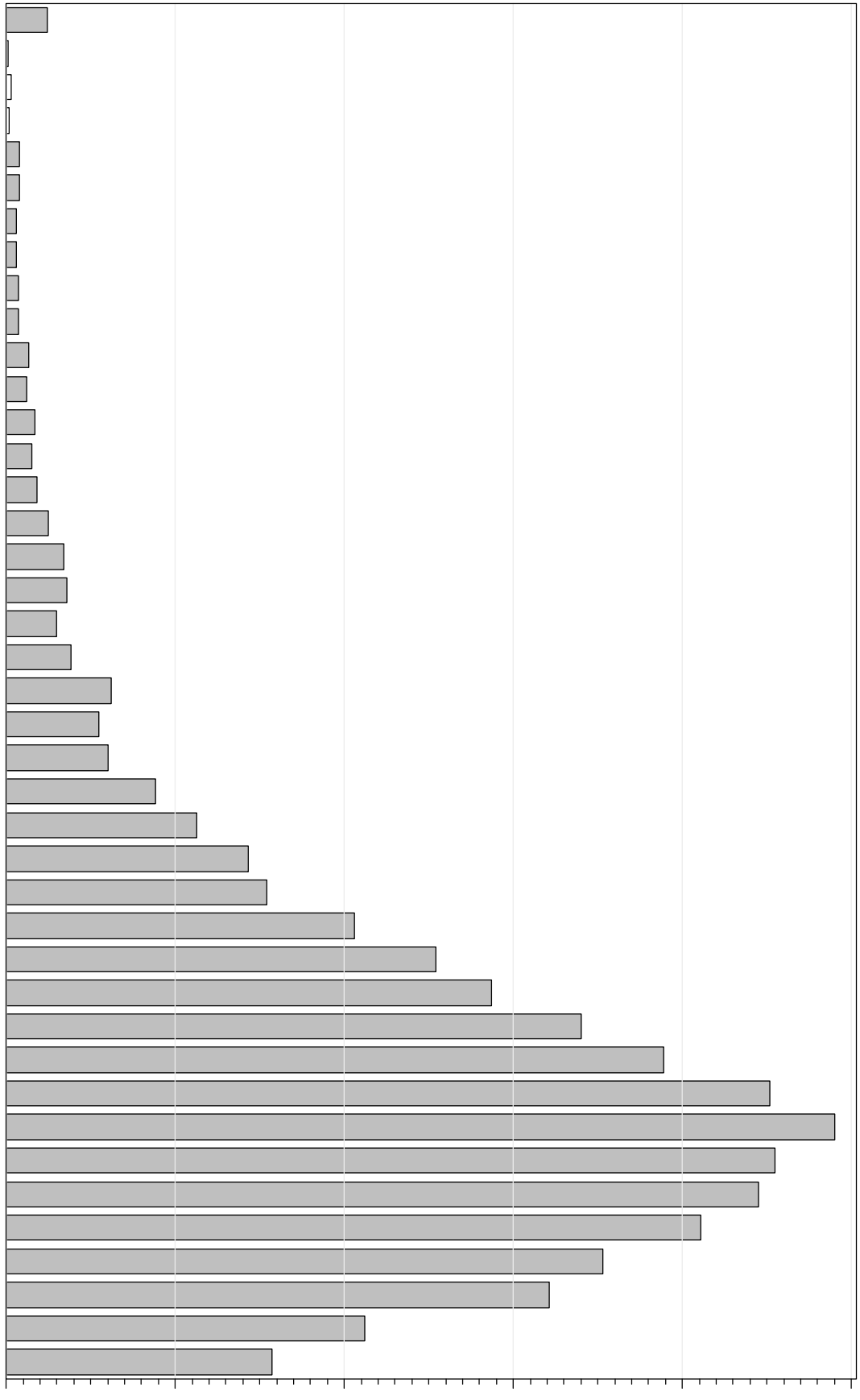
STAAR ALTERNATE 2 SPRING 2017
GRADE 3 MATHEMATICS
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
105	16	16	0.28	0.28
149	3	19	0.05	0.34
173	7	26	0.12	0.46
188	3	29	0.05	0.52
200	8	37	0.14	0.66
209	4	41	0.07	0.73
217	10	51	0.18	0.91
225	3	54	0.05	0.96
231	15	69	0.27	1.23
238	12	81	0.21	1.44
244	16	97	0.28	1.72
250	7	104	0.12	1.85
255	18	122	0.32	2.17
260	11	133	0.20	2.36
265	19	152	0.34	2.70
270	30	182	0.53	3.23
275	22	204	0.39	3.62
280	39	243	0.69	4.32
285	38	281	0.68	4.99
289	47	328	0.83	5.83
294	67	395	1.19	7.02
300	58	453	1.03	8.05
303	95	548	1.69	9.74
308	119	667	2.11	11.85
312	143	810	2.54	14.39
317	162	972	2.88	17.27
322	182	1154	3.23	20.50
326	216	1370	3.84	24.34
331	240	1610	4.26	28.60
337	325	1935	5.77	34.38
342	328	2263	5.83	40.20
348	391	2654	6.95	47.15
354	416	3070	7.39	54.54
360	418	3488	7.43	61.96
368	434	3922	7.71	69.67
375	444	4366	7.89	77.56
386	394	4760	7.00	84.56
398	353	5113	6.27	90.83
415	261	5374	4.64	95.47
444	160	5534	2.84	98.31
494	95	5629	1.69	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

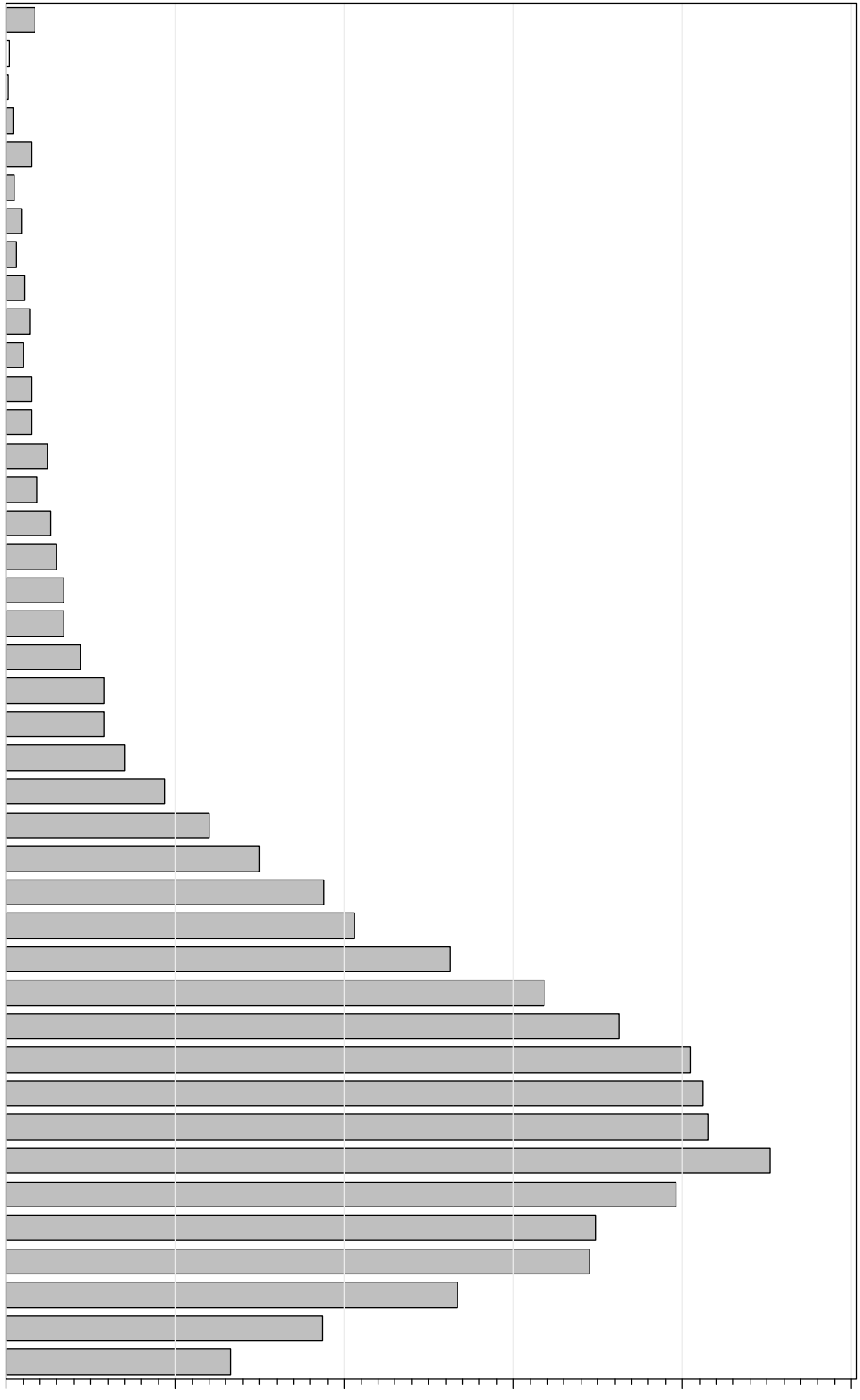
STAAR ALTERNATE 2 SPRING 2017
GRADE 4 MATHEMATICS
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
123	24	24	0.42	0.42
169	1	25	0.02	0.43
194	3	28	0.05	0.49
209	2	30	0.03	0.52
220	8	38	0.14	0.66
228	8	46	0.14	0.80
235	6	52	0.10	0.90
242	6	58	0.10	1.01
247	7	65	0.12	1.13
253	7	72	0.12	1.25
258	13	85	0.23	1.48
262	12	97	0.21	1.68
267	17	114	0.30	1.98
271	15	129	0.26	2.24
275	18	147	0.31	2.55
279	25	172	0.43	2.99
283	34	206	0.59	3.58
287	36	242	0.63	4.20
291	30	272	0.52	4.72
295	38	310	0.66	5.38
300	62	372	1.08	6.46
303	55	427	0.96	7.42
307	60	487	1.04	8.46
311	88	575	1.53	9.99
315	113	688	1.96	11.95
319	143	831	2.48	14.43
324	154	985	2.68	17.11
328	206	1191	3.58	20.69
333	254	1445	4.41	25.10
338	287	1732	4.99	30.09
343	340	2072	5.91	35.99
348	389	2461	6.76	42.75
354	452	2913	7.85	50.60
360	490	3403	8.51	59.11
367	455	3858	7.90	67.01
375	445	4303	7.73	74.74
387	411	4714	7.14	81.88
397	353	5067	6.13	88.01
413	321	5388	5.58	93.59
441	212	5600	3.68	97.27
490	157	5757	2.73	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

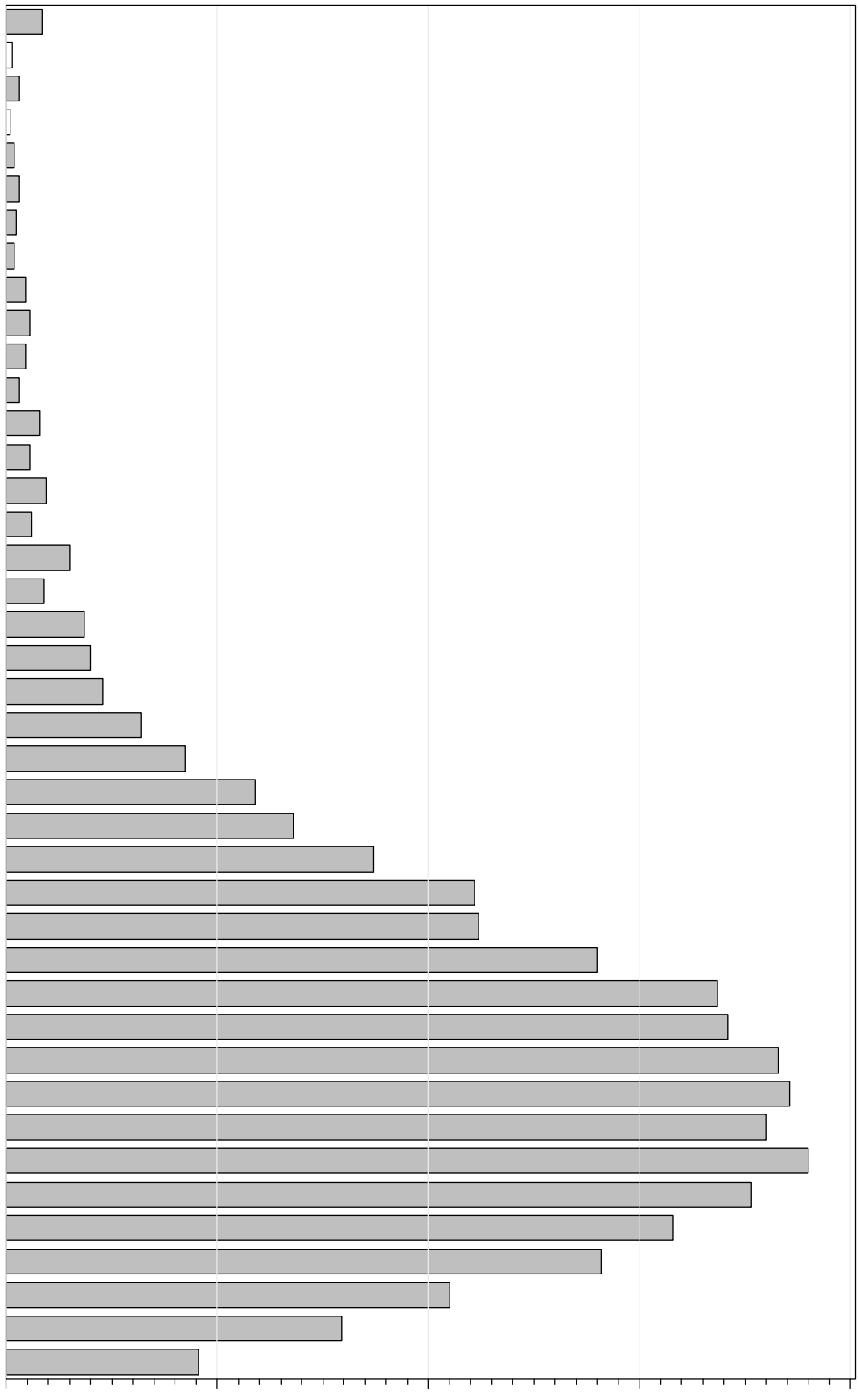
STAAR ALTERNATE 2 SPRING 2017
GRADE 5 MATHEMATICS
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
113	17	17	0.30	0.30
159	2	19	0.04	0.34
184	1	20	0.02	0.36
200	4	24	0.07	0.43
211	15	39	0.27	0.70
220	5	44	0.09	0.79
228	9	53	0.16	0.95
235	6	59	0.11	1.06
241	11	70	0.20	1.25
247	14	84	0.25	1.50
253	10	94	0.18	1.68
259	15	109	0.27	1.95
264	15	124	0.27	2.22
269	24	148	0.43	2.65
273	18	166	0.32	2.97
278	26	192	0.47	3.44
283	30	222	0.54	3.98
287	34	256	0.61	4.59
292	34	290	0.61	5.19
296	44	334	0.79	5.98
300	58	392	1.04	7.02
304	58	450	1.04	8.06
309	70	520	1.25	9.31
313	94	614	1.68	11.00
317	120	734	2.15	13.15
322	150	884	2.69	15.83
326	188	1072	3.37	19.20
331	206	1278	3.69	22.89
336	263	1541	4.71	27.60
340	318	1859	5.70	33.30
346	363	2222	6.50	39.80
351	405	2627	7.25	47.05
357	412	3039	7.38	54.43
363	415	3454	7.43	61.87
370	452	3906	8.10	69.96
379	396	4302	7.09	77.06
388	349	4651	6.25	83.31
400	345	4996	6.18	89.49
417	267	5263	4.78	94.27
446	187	5450	3.35	97.62
496	133	5583	2.38	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

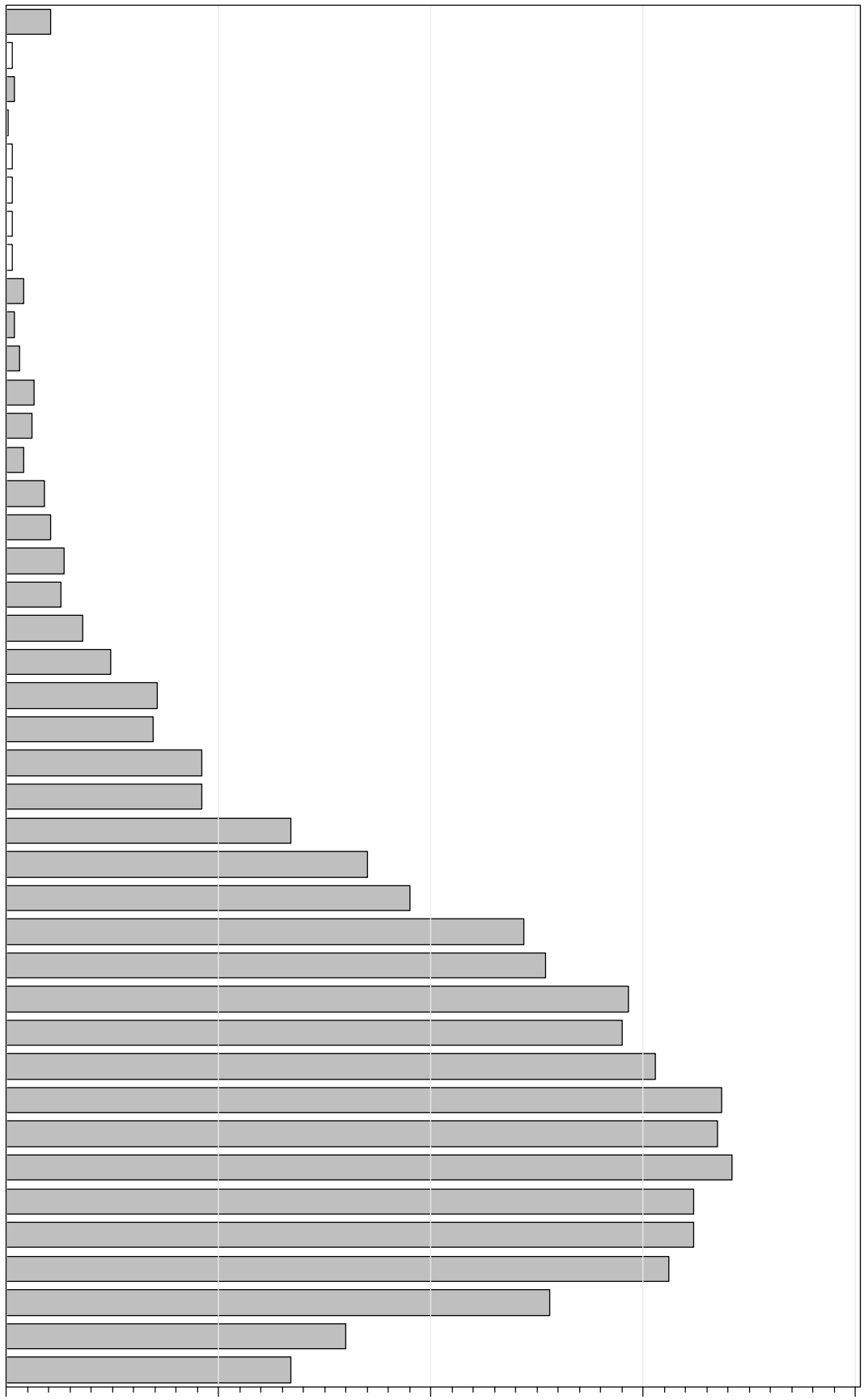
STAAR ALTERNATE 2 SPRING 2017
GRADE 6 MATHEMATICS
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	17	17	0.33	0.33
138	3	20	0.06	0.39
166	6	26	0.12	0.50
182	2	28	0.04	0.54
194	4	32	0.08	0.62
204	6	38	0.12	0.73
213	5	43	0.10	0.83
220	4	47	0.08	0.91
227	9	56	0.17	1.08
233	11	67	0.21	1.29
240	9	76	0.17	1.47
246	6	82	0.12	1.58
251	16	98	0.31	1.89
257	11	109	0.21	2.10
262	19	128	0.37	2.47
267	12	140	0.23	2.70
273	30	170	0.58	3.28
278	18	188	0.35	3.63
283	37	225	0.71	4.34
288	40	265	0.77	5.11
293	46	311	0.89	6.00
300	64	375	1.24	7.24
303	85	460	1.64	8.88
308	118	578	2.28	11.16
314	136	714	2.62	13.78
319	174	888	3.36	17.14
324	222	1110	4.28	21.42
330	224	1334	4.32	25.75
336	280	1614	5.40	31.15
342	337	1951	6.50	37.66
348	342	2293	6.60	44.26
354	366	2659	7.06	51.32
361	371	3030	7.16	58.48
373	360	3390	6.95	65.43
378	380	3770	7.33	72.77
387	353	4123	6.81	79.58
399	316	4439	6.10	85.68
413	282	4721	5.44	91.12
432	210	4931	4.05	95.17
464	159	5090	3.07	98.24
520	91	5181	1.76	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

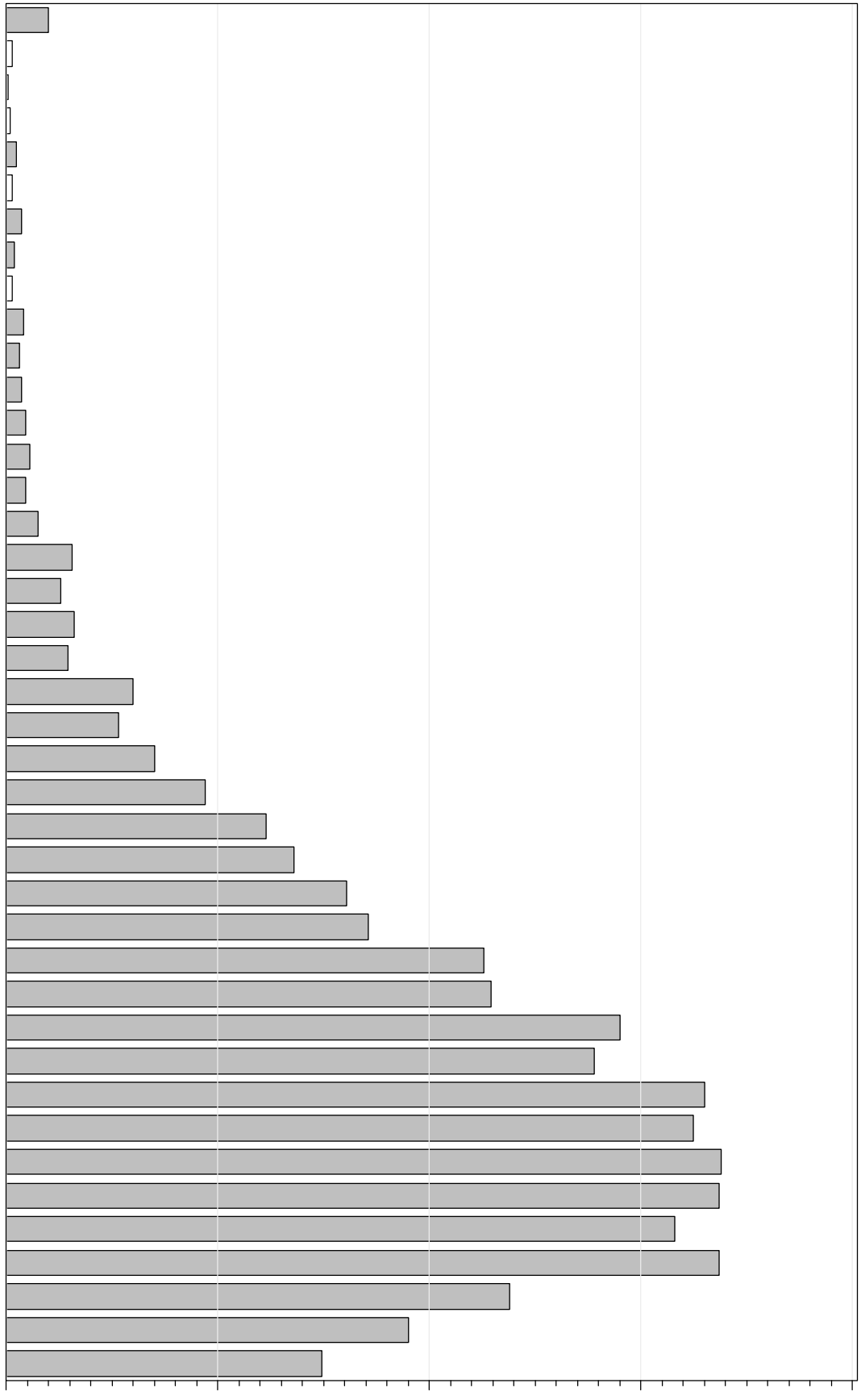
STAAR ALTERNATE 2 SPRING 2017
GRADE 7 MATHEMATICS
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
102	21	21	0.42	0.42
151	3	24	0.06	0.48
179	4	28	0.08	0.56
194	1	29	0.02	0.58
206	3	32	0.06	0.64
215	3	35	0.06	0.70
223	3	38	0.06	0.76
230	3	41	0.06	0.82
237	8	49	0.16	0.98
243	4	53	0.08	1.06
249	6	59	0.12	1.18
254	13	72	0.26	1.44
259	12	84	0.24	1.68
264	8	92	0.16	1.84
269	18	110	0.36	2.20
274	21	131	0.42	2.62
278	27	158	0.54	3.16
283	26	184	0.52	3.68
288	36	220	0.72	4.40
292	49	269	0.98	5.38
297	71	340	1.42	6.80
300	69	409	1.38	8.18
306	92	501	1.84	10.02
311	92	593	1.84	11.86
315	134	727	2.68	14.55
320	170	897	3.40	17.95
325	190	1087	3.80	21.75
330	244	1331	4.88	26.63
335	254	1585	5.08	31.71
340	293	1878	5.86	37.58
345	290	2168	5.80	43.38
351	306	2474	6.12	49.50
357	337	2811	6.74	56.24
364	335	3146	6.70	62.95
375	342	3488	6.84	69.79
380	324	3812	6.48	76.27
390	324	4136	6.48	82.75
403	312	4448	6.24	89.00
421	256	4704	5.12	94.12
451	160	4864	3.20	97.32
504	134	4998	2.68	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

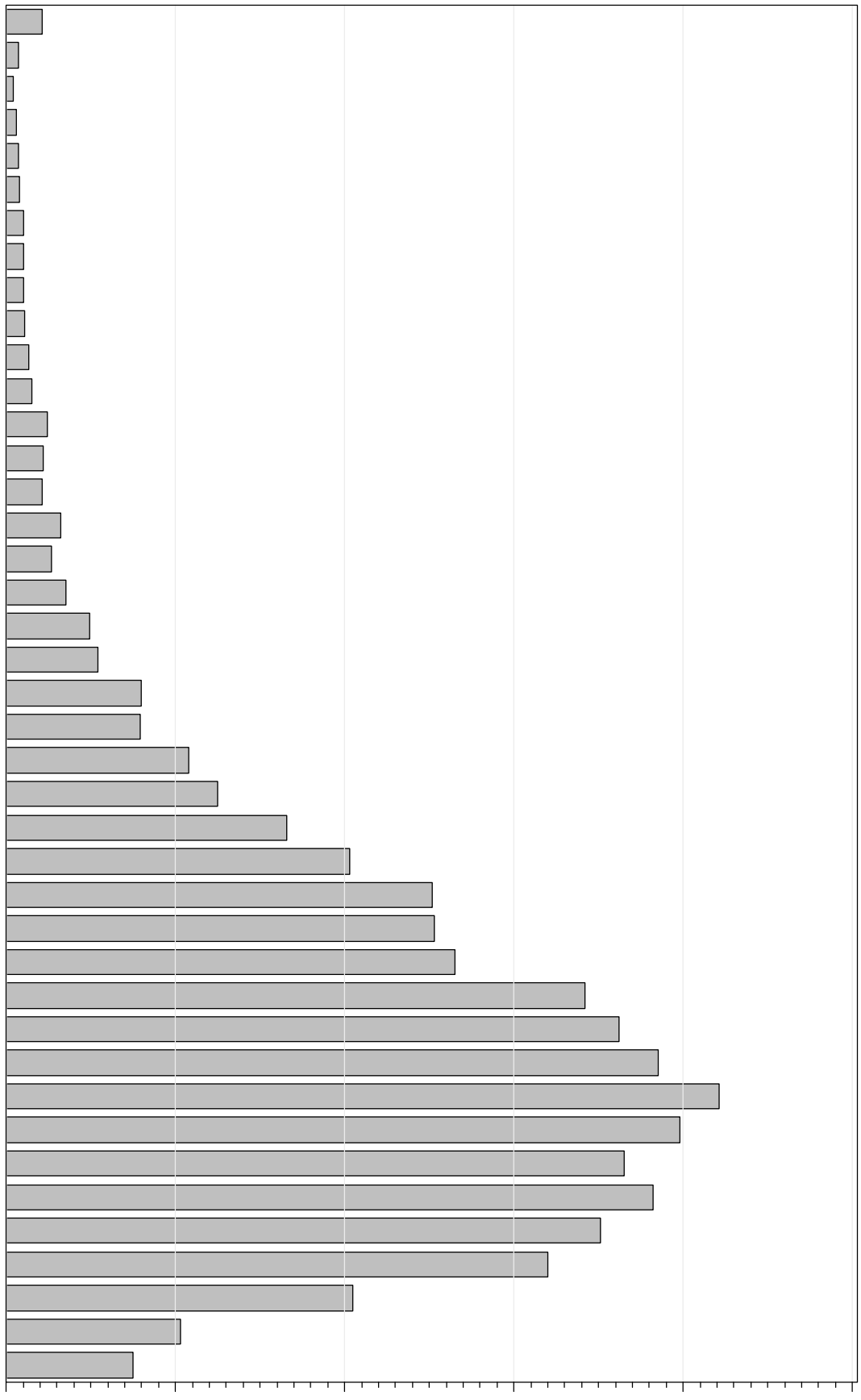
STAAR ALTERNATE 2 SPRING 2017
GRADE 8 MATHEMATICS
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	20	20	0.43	0.43
133	3	23	0.06	0.49
160	1	24	0.02	0.51
176	2	26	0.04	0.56
188	5	31	0.11	0.66
197	3	34	0.06	0.73
206	7	41	0.15	0.88
213	4	45	0.09	0.96
220	3	48	0.06	1.03
226	8	56	0.17	1.20
232	6	62	0.13	1.32
238	7	69	0.15	1.47
243	9	78	0.19	1.67
248	11	89	0.23	1.90
254	9	98	0.19	2.09
259	15	113	0.32	2.41
264	31	144	0.66	3.08
269	26	170	0.56	3.63
274	32	202	0.68	4.31
278	29	231	0.62	4.93
283	60	291	1.28	6.22
288	53	344	1.13	7.35
293	70	414	1.50	8.84
298	94	508	2.01	10.85
300	123	631	2.63	13.48
307	136	767	2.90	16.38
312	161	928	3.44	19.82
317	171	1099	3.65	23.47
322	226	1325	4.83	28.30
328	229	1554	4.89	33.19
333	290	1844	6.19	39.38
339	278	2122	5.94	45.32
345	330	2452	7.05	52.37
352	325	2777	6.94	59.31
360	338	3115	7.22	66.53
365	337	3452	7.20	73.73
379	316	3768	6.75	80.48
392	337	4105	7.20	87.68
410	238	4343	5.08	92.76
440	190	4533	4.06	96.82
494	149	4682	3.18	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

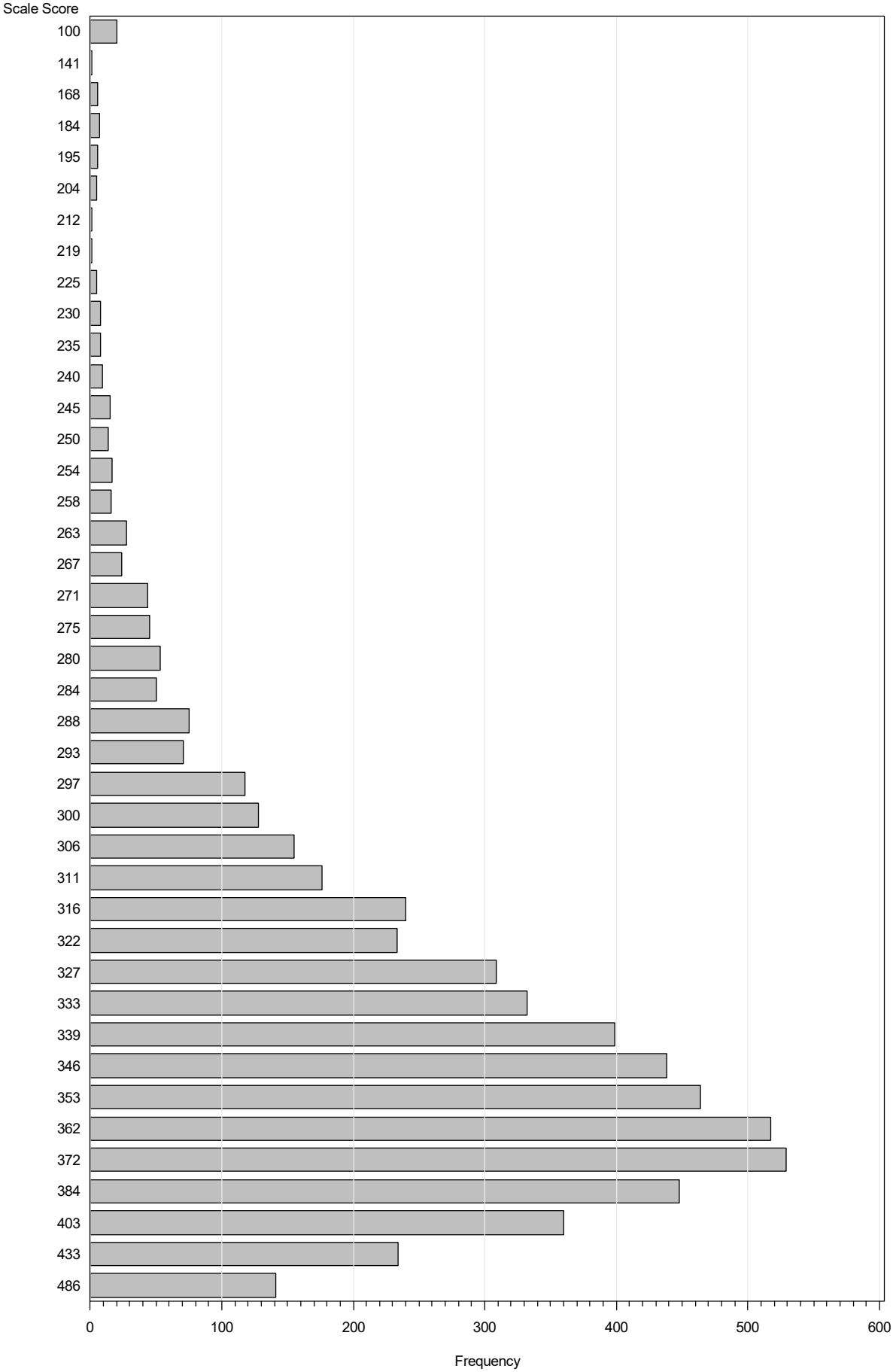
STAAR ALTERNATE 2 SPRING 2017
GRADE 3 READING
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
108	21	21	0.37	0.37
155	7	28	0.12	0.50
181	4	32	0.07	0.57
195	6	38	0.11	0.68
206	7	45	0.12	0.80
214	8	53	0.14	0.94
221	10	63	0.18	1.12
228	10	73	0.18	1.30
234	10	83	0.18	1.48
239	11	94	0.20	1.67
244	13	107	0.23	1.90
249	15	122	0.27	2.17
253	24	146	0.43	2.60
258	22	168	0.39	2.99
262	21	189	0.37	3.36
267	32	221	0.57	3.93
271	27	248	0.48	4.41
275	35	283	0.62	5.03
279	49	332	0.87	5.90
284	54	386	0.96	6.86
288	80	466	1.42	8.28
292	79	545	1.40	9.69
297	108	653	1.92	11.61
300	125	778	2.22	13.83
306	166	944	2.95	16.78
310	203	1147	3.61	20.39
315	252	1399	4.48	24.87
320	253	1652	4.50	29.36
325	265	1917	4.71	34.07
330	342	2259	6.08	40.15
335	362	2621	6.43	46.59
340	385	3006	6.84	53.43
346	421	3427	7.48	60.91
353	398	3825	7.07	67.99
360	365	4190	6.49	74.48
368	382	4572	6.79	81.27
381	351	4923	6.24	87.50
390	320	5243	5.69	93.19
407	205	5448	3.64	96.84
435	103	5551	1.83	98.67
485	75	5626	1.33	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

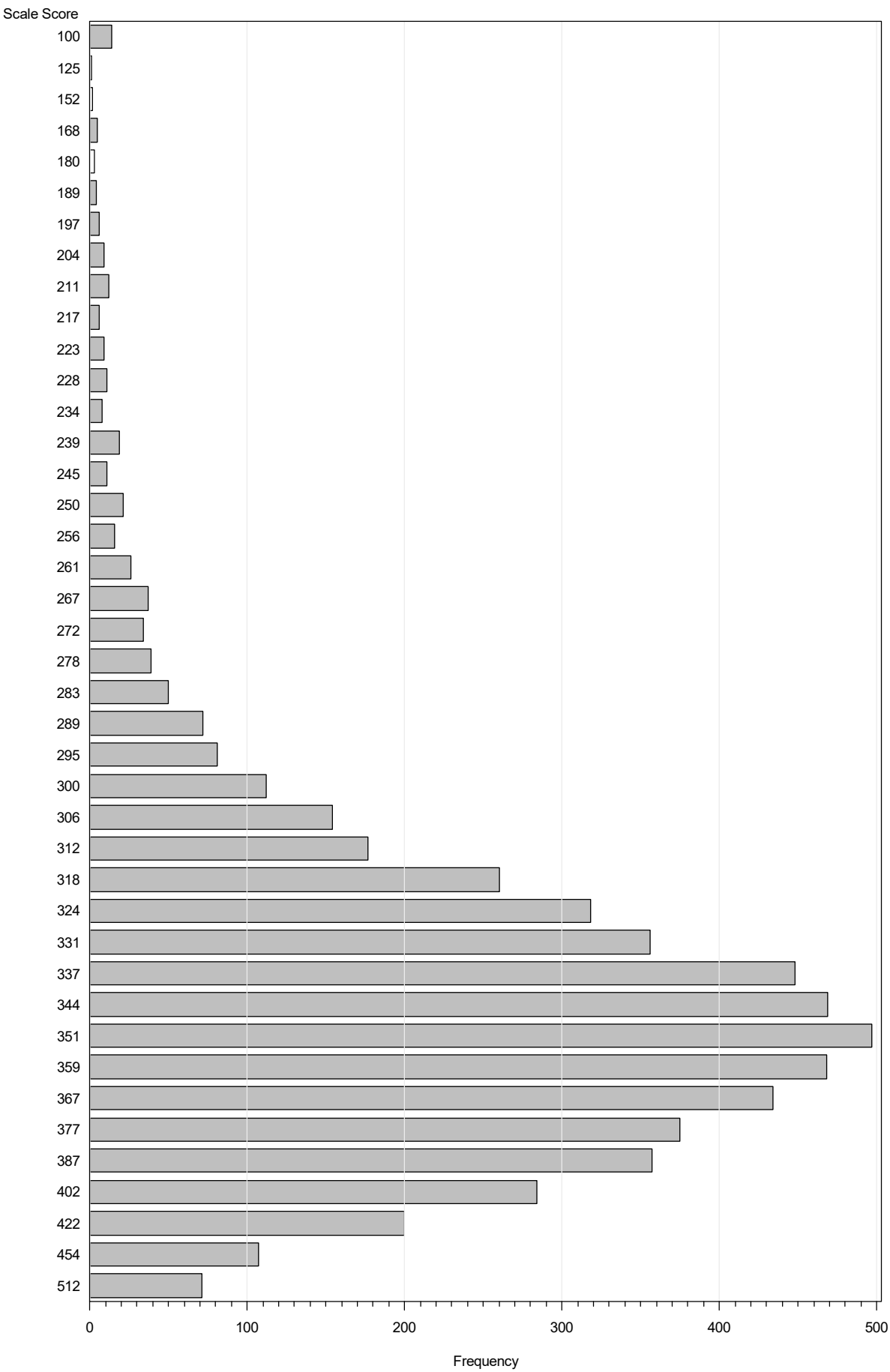
STAAR ALTERNATE 2 SPRING 2017
GRADE 4 READING
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	20	20	0.35	0.35
141	1	21	0.02	0.37
168	6	27	0.10	0.47
184	7	34	0.12	0.59
195	6	40	0.10	0.70
204	5	45	0.09	0.78
212	1	46	0.02	0.80
219	1	47	0.02	0.82
225	5	52	0.09	0.90
230	8	60	0.14	1.04
235	8	68	0.14	1.18
240	9	77	0.16	1.34
245	15	92	0.26	1.60
250	14	106	0.24	1.84
254	17	123	0.30	2.14
258	16	139	0.28	2.42
263	28	167	0.49	2.90
267	24	191	0.42	3.32
271	44	235	0.77	4.09
275	45	280	0.78	4.87
280	53	333	0.92	5.79
284	50	383	0.87	6.66
288	75	458	1.30	7.97
293	71	529	1.23	9.20
297	118	647	2.05	11.25
300	128	775	2.23	13.48
306	155	930	2.70	16.17
311	176	1106	3.06	19.23
316	240	1346	4.17	23.41
322	233	1579	4.05	27.46
327	309	1888	5.37	32.83
333	332	2220	5.77	38.61
339	399	2619	6.94	45.55
346	438	3057	7.62	53.17
353	464	3521	8.07	61.23
362	517	4038	8.99	70.23
372	529	4567	9.20	79.43
384	448	5015	7.79	87.22
403	360	5375	6.26	93.48
433	234	5609	4.07	97.55
486	141	5750	2.45	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

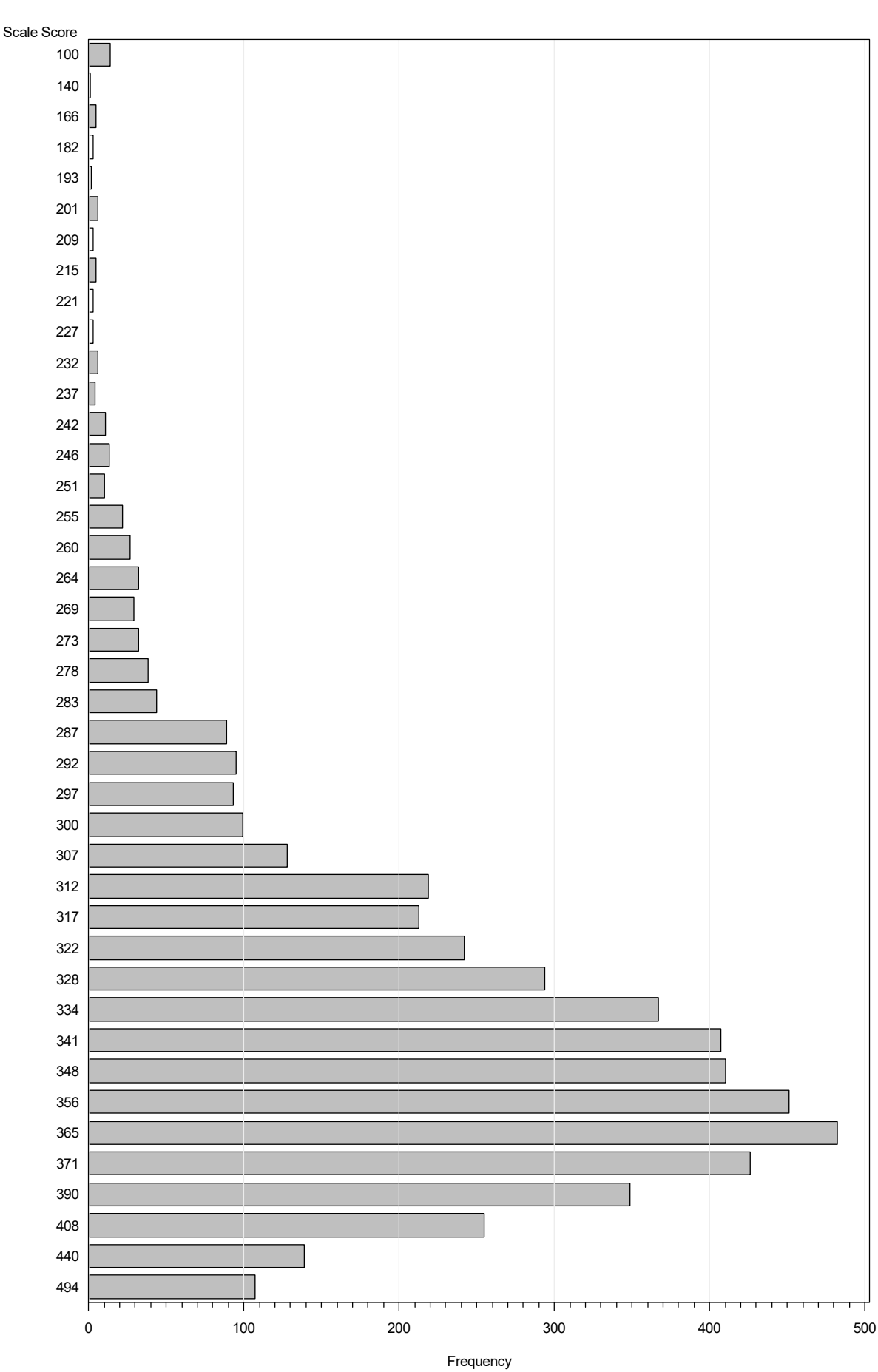
STAAR ALTERNATE 2 SPRING 2017
GRADE 5 READING
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	14	14	0.25	0.25
125	1	15	0.02	0.27
152	2	17	0.04	0.30
168	5	22	0.09	0.39
180	3	25	0.05	0.45
189	4	29	0.07	0.52
197	6	35	0.11	0.63
204	9	44	0.16	0.79
211	12	56	0.21	1.00
217	6	62	0.11	1.11
223	9	71	0.16	1.27
228	11	82	0.20	1.47
234	8	90	0.14	1.61
239	19	109	0.34	1.95
245	11	120	0.20	2.15
250	21	141	0.38	2.53
256	16	157	0.29	2.81
261	26	183	0.47	3.28
267	37	220	0.66	3.94
272	34	254	0.61	4.55
278	39	293	0.70	5.25
283	50	343	0.90	6.14
289	72	415	1.29	7.43
295	81	496	1.45	8.88
300	112	608	2.01	10.89
306	154	762	2.76	13.65
312	177	939	3.17	16.82
318	260	1199	4.66	21.48
324	318	1517	5.70	27.17
331	356	1873	6.38	33.55
337	448	2321	8.02	41.57
344	469	2790	8.40	49.97
351	497	3287	8.90	58.88
359	468	3755	8.38	67.26
367	434	4189	7.77	75.03
377	375	4564	6.72	81.75
387	357	4921	6.39	88.14
402	284	5205	5.09	93.23
422	200	5405	3.58	96.81
454	107	5512	1.92	98.73
512	71	5583	1.27	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

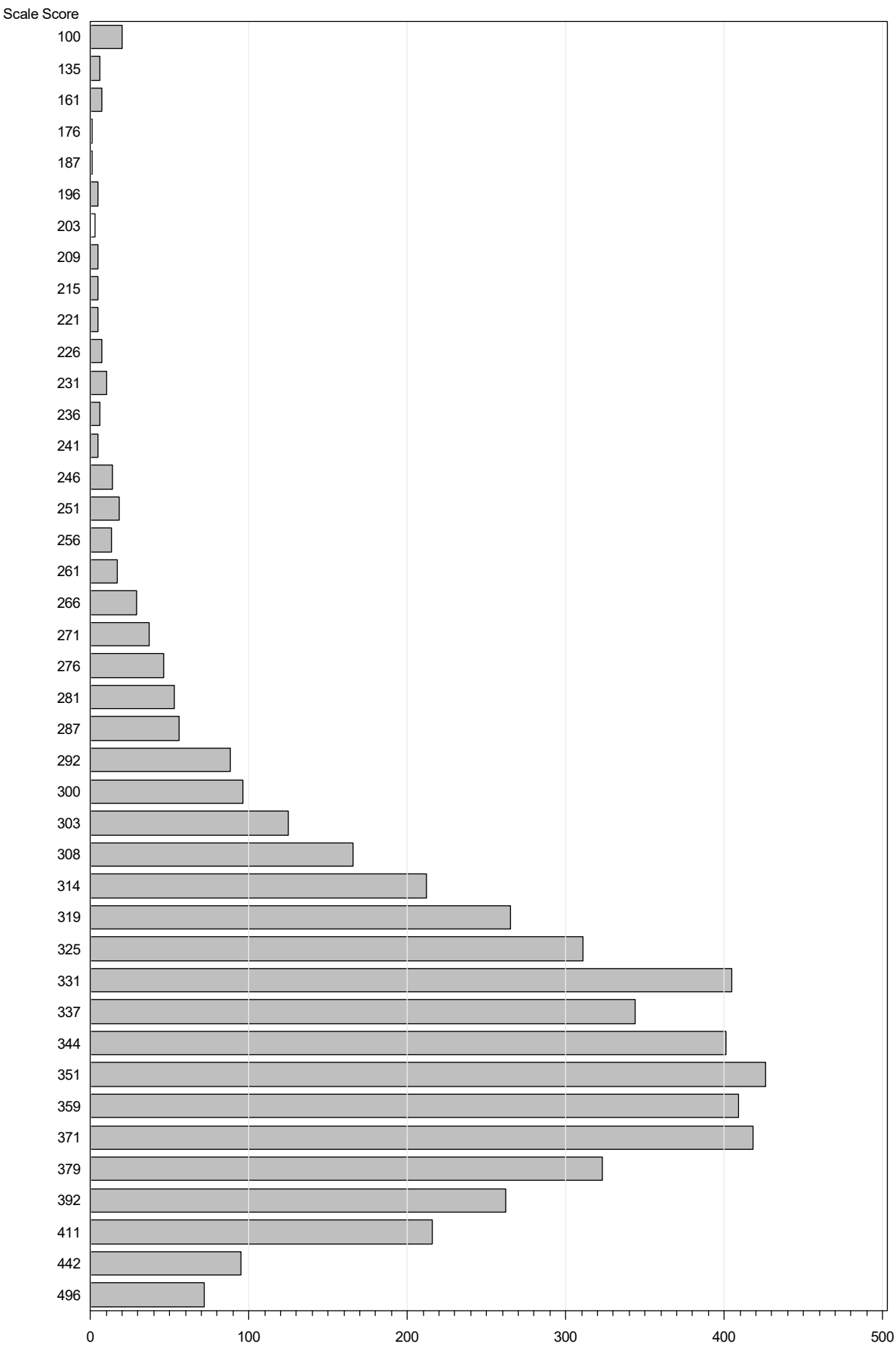
STAAR ALTERNATE 2 SPRING 2017
GRADE 6 READING
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	14	14	0.27	0.27
140	1	15	0.02	0.29
166	5	20	0.10	0.39
182	3	23	0.06	0.44
193	2	25	0.04	0.48
201	6	31	0.12	0.60
209	3	34	0.06	0.66
215	5	39	0.10	0.75
221	3	42	0.06	0.81
227	3	45	0.06	0.87
232	6	51	0.12	0.98
237	4	55	0.08	1.06
242	11	66	0.21	1.27
246	13	79	0.25	1.53
251	10	89	0.19	1.72
255	22	111	0.42	2.14
260	27	138	0.52	2.67
264	32	170	0.62	3.28
269	29	199	0.56	3.84
273	32	231	0.62	4.46
278	38	269	0.73	5.20
283	44	313	0.85	6.04
287	89	402	1.72	7.76
292	95	497	1.83	9.60
297	93	590	1.80	11.39
300	99	689	1.91	13.31
307	128	817	2.47	15.78
312	219	1036	4.23	20.01
317	213	1249	4.11	24.12
322	242	1491	4.67	28.79
328	294	1785	5.68	34.47
334	367	2152	7.09	41.56
341	407	2559	7.86	49.42
348	410	2969	7.92	57.34
356	451	3420	8.71	66.05
365	482	3902	9.31	75.36
371	426	4328	8.23	83.58
390	349	4677	6.74	90.32
408	255	4932	4.92	95.25
440	139	5071	2.68	97.93
494	107	5178	2.07	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

STAAR ALTERNATE 2 SPRING 2017
GRADE 7 READING
ALL STUDENTS



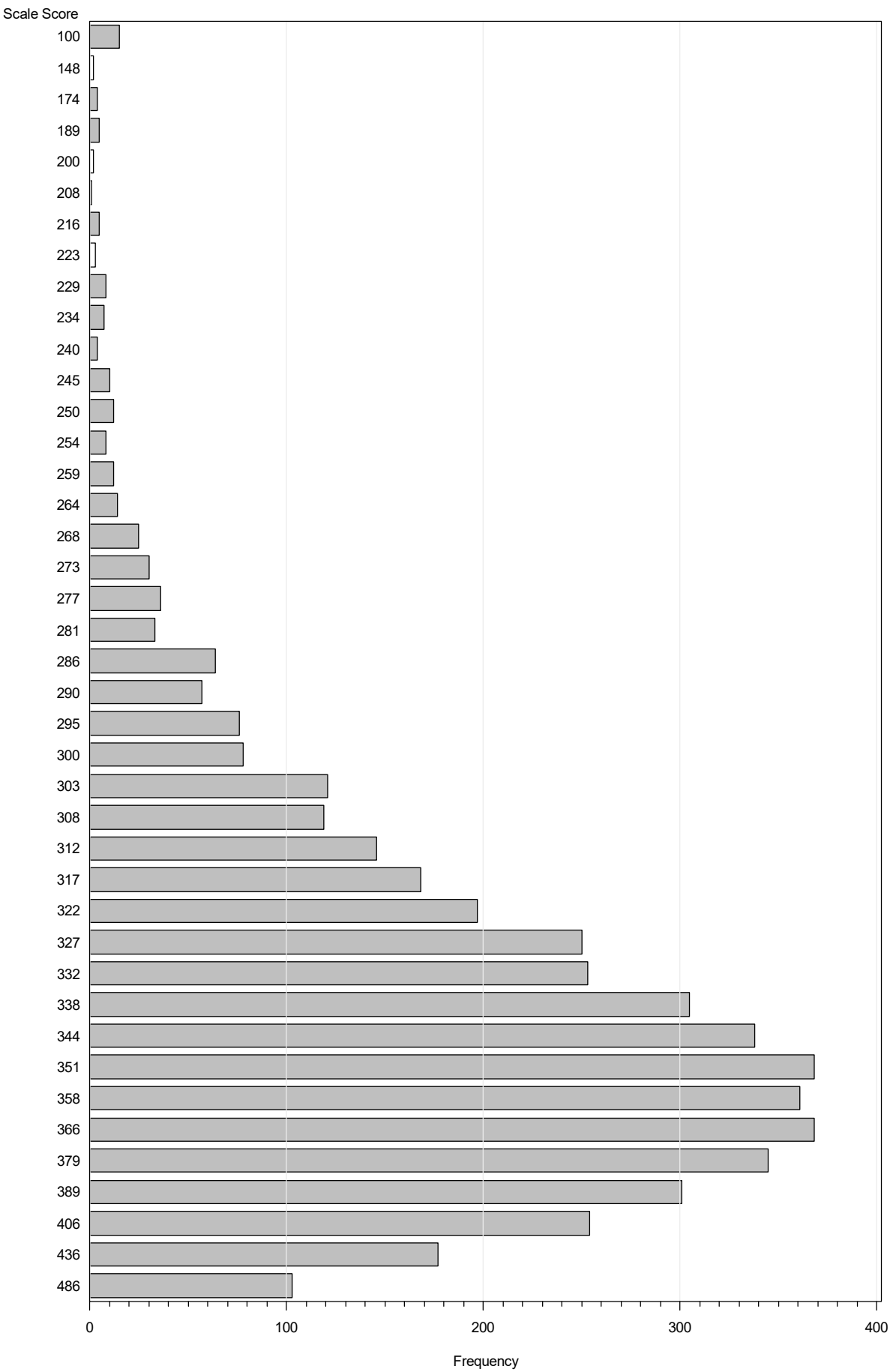
Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	20	20	0.40	0.40
135	6	26	0.12	0.52
161	7	33	0.14	0.66
176	1	34	0.02	0.68
187	1	35	0.02	0.70
196	5	40	0.10	0.80
203	3	43	0.06	0.86
209	5	48	0.10	0.96
215	5	53	0.10	1.06
221	5	58	0.10	1.16
226	7	65	0.14	1.30
231	10	75	0.20	1.50
236	6	81	0.12	1.62
241	5	86	0.10	1.72
246	14	100	0.28	2.00
251	18	118	0.36	2.36
256	13	131	0.26	2.62
261	17	148	0.34	2.96
266	29	177	0.58	3.54
271	37	214	0.74	4.28
276	46	260	0.92	5.20
281	53	313	1.06	6.26
287	56	369	1.12	7.38
292	88	457	1.76	9.13
300	96	553	1.92	11.05
303	125	678	2.50	13.55
308	166	844	3.32	16.87
314	212	1056	4.24	21.11
319	265	1321	5.30	26.40
325	311	1632	6.22	32.62
331	405	2037	8.10	40.72
337	344	2381	6.88	47.59
344	401	2782	8.02	55.61
351	426	3208	8.51	64.12
359	409	3617	8.18	72.30
371	418	4035	8.35	80.65
379	323	4358	6.46	87.11
392	262	4620	5.24	92.34
411	216	4836	4.32	96.66
442	95	4931	1.90	98.56
496	72	5003	1.44	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

STAAR ALTERNATE 2 SPRING 2017

GRADE 8 READING

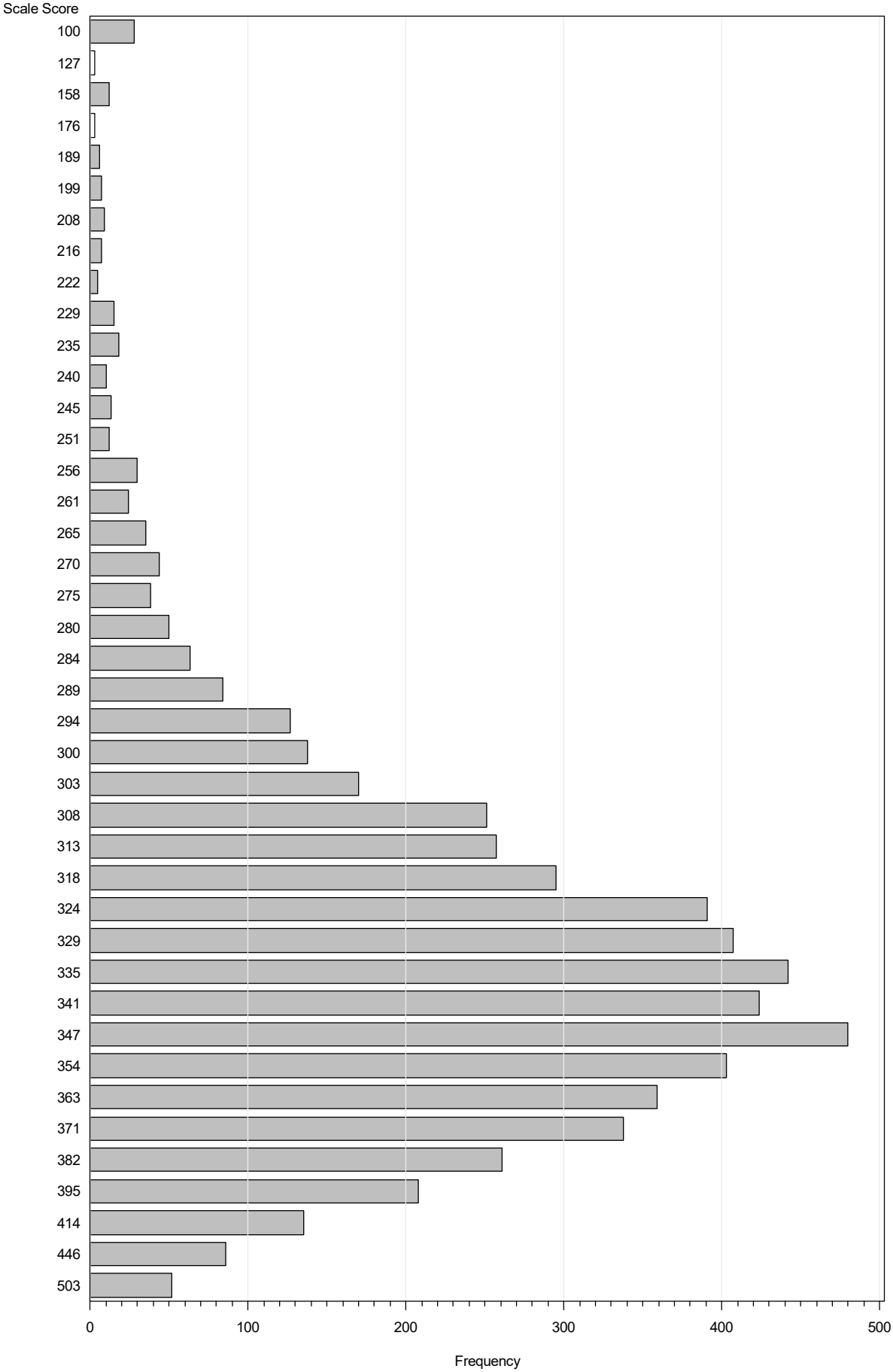
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	15	15	0.32	0.32
148	2	17	0.04	0.36
174	4	21	0.09	0.45
189	5	26	0.11	0.55
200	2	28	0.04	0.60
208	1	29	0.02	0.62
216	5	34	0.11	0.73
223	3	37	0.06	0.79
229	8	45	0.17	0.96
234	7	52	0.15	1.11
240	4	56	0.09	1.20
245	10	66	0.21	1.41
250	12	78	0.26	1.66
254	8	86	0.17	1.84
259	12	98	0.26	2.09
264	14	112	0.30	2.39
268	25	137	0.53	2.92
273	30	167	0.64	3.56
277	36	203	0.77	4.33
281	33	236	0.70	5.04
286	64	300	1.37	6.40
290	57	357	1.22	7.62
295	76	433	1.62	9.24
300	78	511	1.66	10.91
303	121	632	2.58	13.49
308	119	751	2.54	16.03
312	146	897	3.12	19.15
317	168	1065	3.59	22.73
322	197	1262	4.20	26.94
327	250	1512	5.34	32.27
332	253	1765	5.40	37.67
338	305	2070	6.51	44.18
344	338	2408	7.21	51.40
351	368	2776	7.85	59.25
358	361	3137	7.71	66.96
366	368	3505	7.85	74.81
379	345	3850	7.36	82.18
389	301	4151	6.42	88.60
406	254	4405	5.42	94.02
436	177	4582	3.78	97.80
486	103	4685	2.20	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

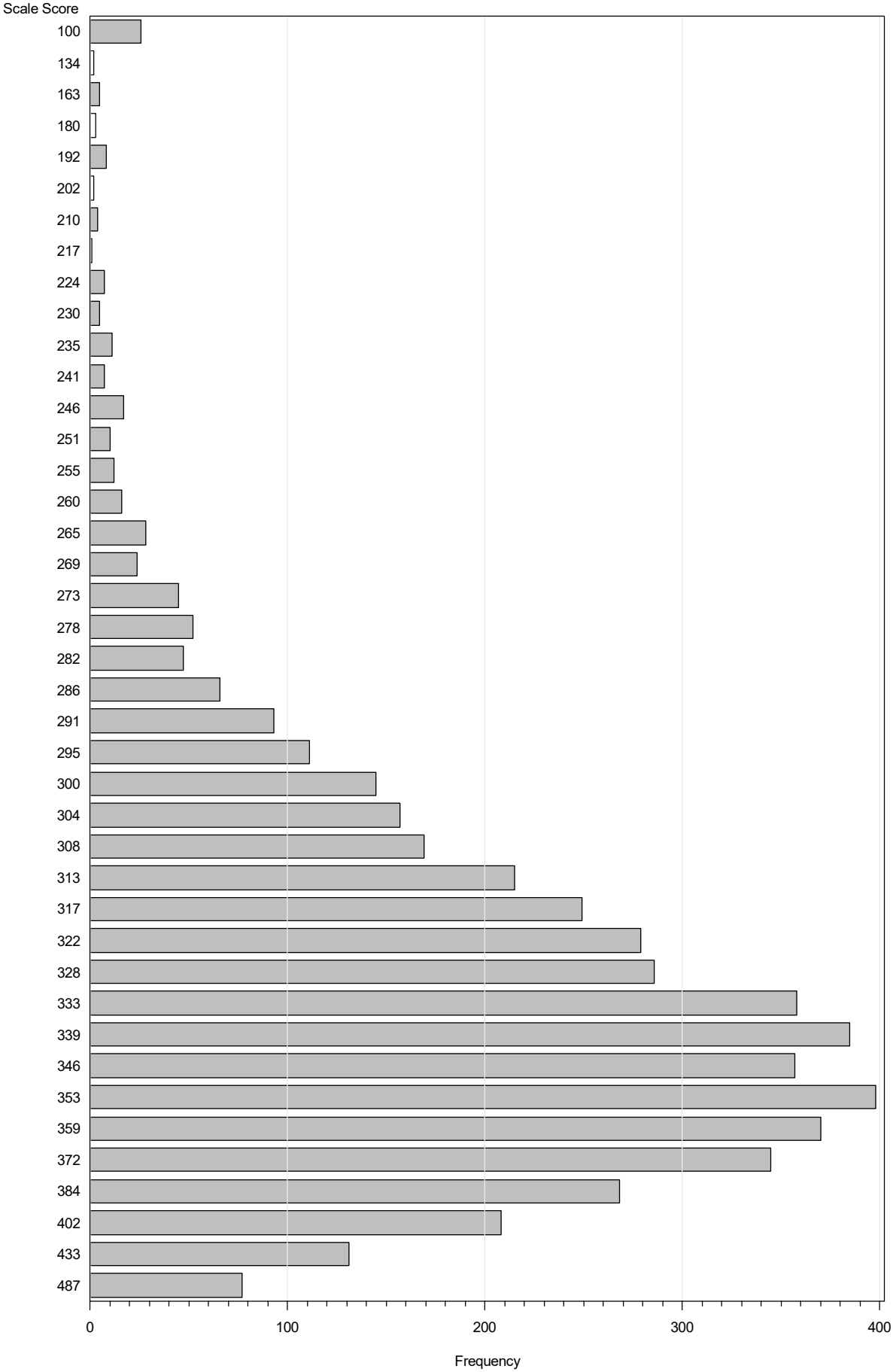
STAAR ALTERNATE 2 SPRING 2017
GRADE 4 WRITING
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	28	28	0.49	0.49
127	3	31	0.05	0.54
158	12	43	0.21	0.75
176	3	46	0.05	0.80
189	6	52	0.10	0.91
199	7	59	0.12	1.03
208	9	68	0.16	1.18
216	7	75	0.12	1.31
222	5	80	0.09	1.39
229	15	95	0.26	1.66
235	18	113	0.31	1.97
240	10	123	0.17	2.14
245	13	136	0.23	2.37
251	12	148	0.21	2.58
256	30	178	0.52	3.10
261	24	202	0.42	3.52
265	35	237	0.61	4.13
270	44	281	0.77	4.90
275	38	319	0.66	5.56
280	50	369	0.87	6.43
284	63	432	1.10	7.53
289	84	516	1.46	8.99
294	127	643	2.21	11.20
300	138	781	2.40	13.61
303	170	951	2.96	16.57
308	251	1202	4.37	20.94
313	257	1459	4.48	25.42
318	295	1754	5.14	30.56
324	391	2145	6.81	37.37
329	407	2552	7.09	44.46
335	442	2994	7.70	52.16
341	424	3418	7.39	59.55
347	480	3898	8.36	67.91
354	403	4301	7.02	74.93
363	359	4660	6.25	81.18
371	338	4998	5.89	87.07
382	261	5259	4.55	91.62
395	208	5467	3.62	95.24
414	135	5602	2.35	97.60
446	86	5688	1.50	99.09
503	52	5740	0.91	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

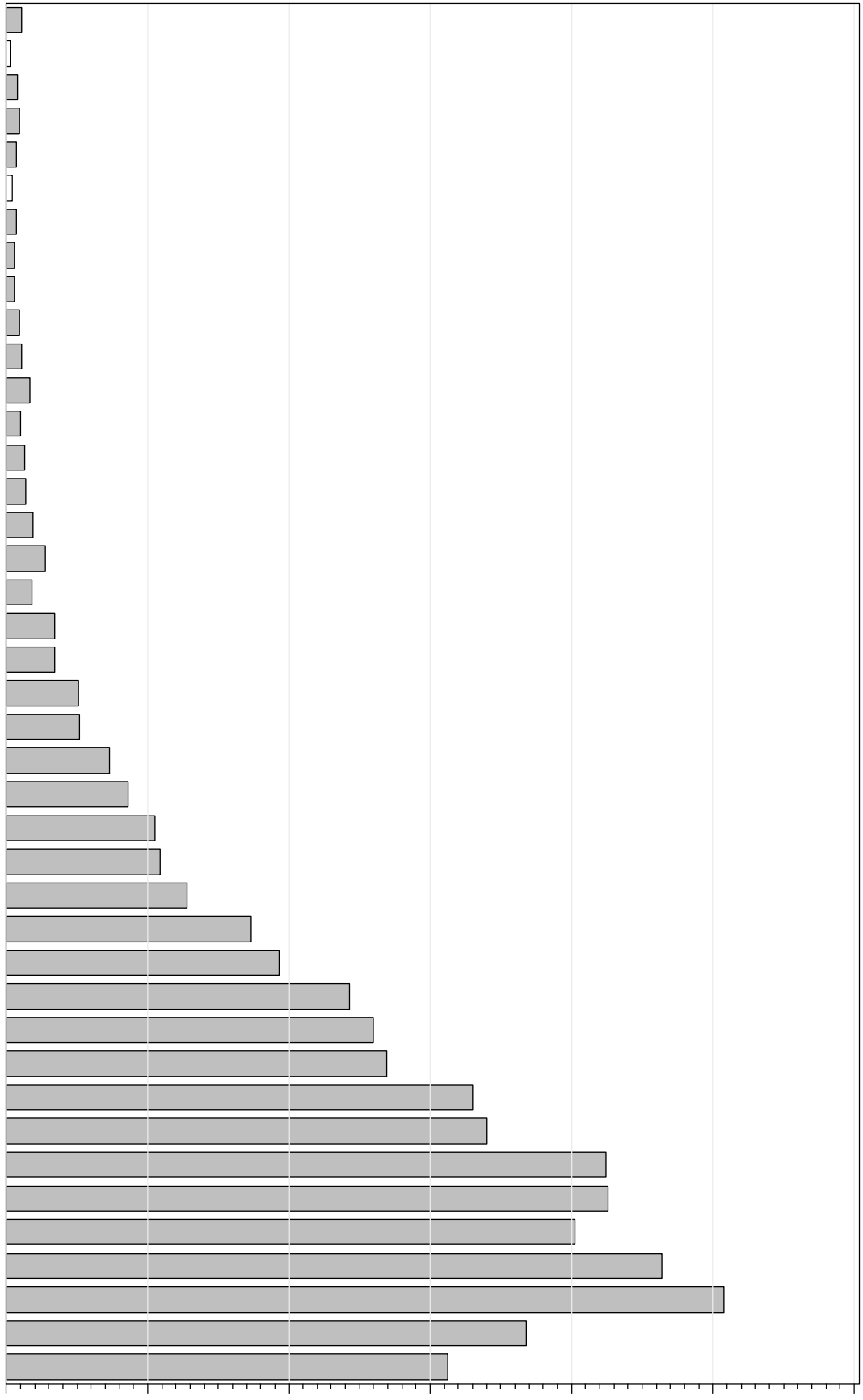
STAAR ALTERNATE 2 SPRING 2017
GRADE 7 WRITING
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	26	26	0.52	0.52
134	2	28	0.04	0.56
163	5	33	0.10	0.66
180	3	36	0.06	0.72
192	8	44	0.16	0.88
202	2	46	0.04	0.92
210	4	50	0.08	1.00
217	1	51	0.02	1.02
224	7	58	0.14	1.16
230	5	63	0.10	1.26
235	11	74	0.22	1.48
241	7	81	0.14	1.62
246	17	98	0.34	1.96
251	10	108	0.20	2.16
255	12	120	0.24	2.40
260	16	136	0.32	2.72
265	28	164	0.56	3.28
269	24	188	0.48	3.76
273	45	233	0.90	4.66
278	52	285	1.04	5.70
282	47	332	0.94	6.64
286	66	398	1.32	7.96
291	93	491	1.86	9.82
295	111	602	2.22	12.04
300	145	747	2.90	14.94
304	157	904	3.14	18.08
308	169	1073	3.38	21.46
313	215	1288	4.30	25.77
317	249	1537	4.98	30.75
322	279	1816	5.58	36.33
328	286	2102	5.72	42.05
333	358	2460	7.16	49.21
339	385	2845	7.70	56.91
346	357	3202	7.14	64.05
353	398	3600	7.96	72.01
359	370	3970	7.40	79.42
372	345	4315	6.90	86.32
384	268	4583	5.36	91.68
402	208	4791	4.16	95.84
433	131	4922	2.62	98.46
487	77	4999	1.54	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

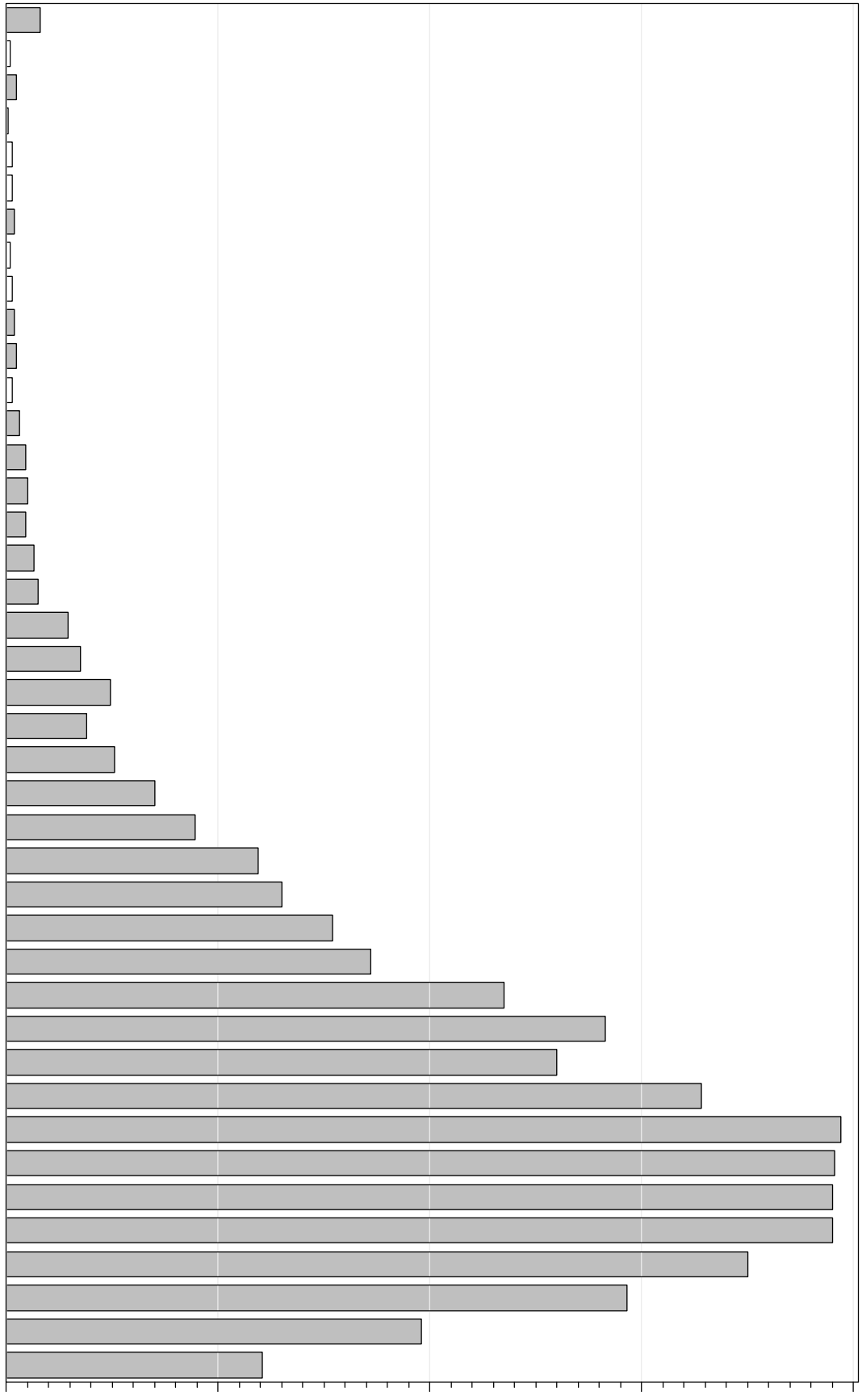
STAAR ALTERNATE 2 SPRING 2017
GRADE 5 SCIENCE
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
112	11	11	0.20	0.20
160	3	14	0.05	0.25
186	8	22	0.14	0.39
201	9	31	0.16	0.56
212	7	38	0.13	0.68
221	4	42	0.07	0.75
228	7	49	0.13	0.88
235	6	55	0.11	0.98
241	6	61	0.11	1.09
246	9	70	0.16	1.25
251	11	81	0.20	1.45
256	17	98	0.30	1.76
261	10	108	0.18	1.93
266	13	121	0.23	2.17
271	14	135	0.25	2.42
275	19	154	0.34	2.76
279	28	182	0.50	3.26
284	18	200	0.32	3.58
288	34	234	0.61	4.19
293	34	268	0.61	4.80
297	51	319	0.91	5.71
300	52	371	0.93	6.64
306	73	444	1.31	7.95
311	86	530	1.54	9.49
315	105	635	1.88	11.37
320	109	744	1.95	13.32
324	128	872	2.29	15.62
329	173	1045	3.10	18.71
334	193	1238	3.46	22.17
339	243	1481	4.35	26.52
345	260	1741	4.66	31.18
350	269	2010	4.82	36.00
356	330	2340	5.91	41.91
363	340	2680	6.09	47.99
370	424	3104	7.59	55.59
379	426	3530	7.63	63.22
387	402	3932	7.20	70.42
401	464	4396	8.31	78.72
418	508	4904	9.10	87.82
447	368	5272	6.59	94.41
498	312	5584	5.59	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

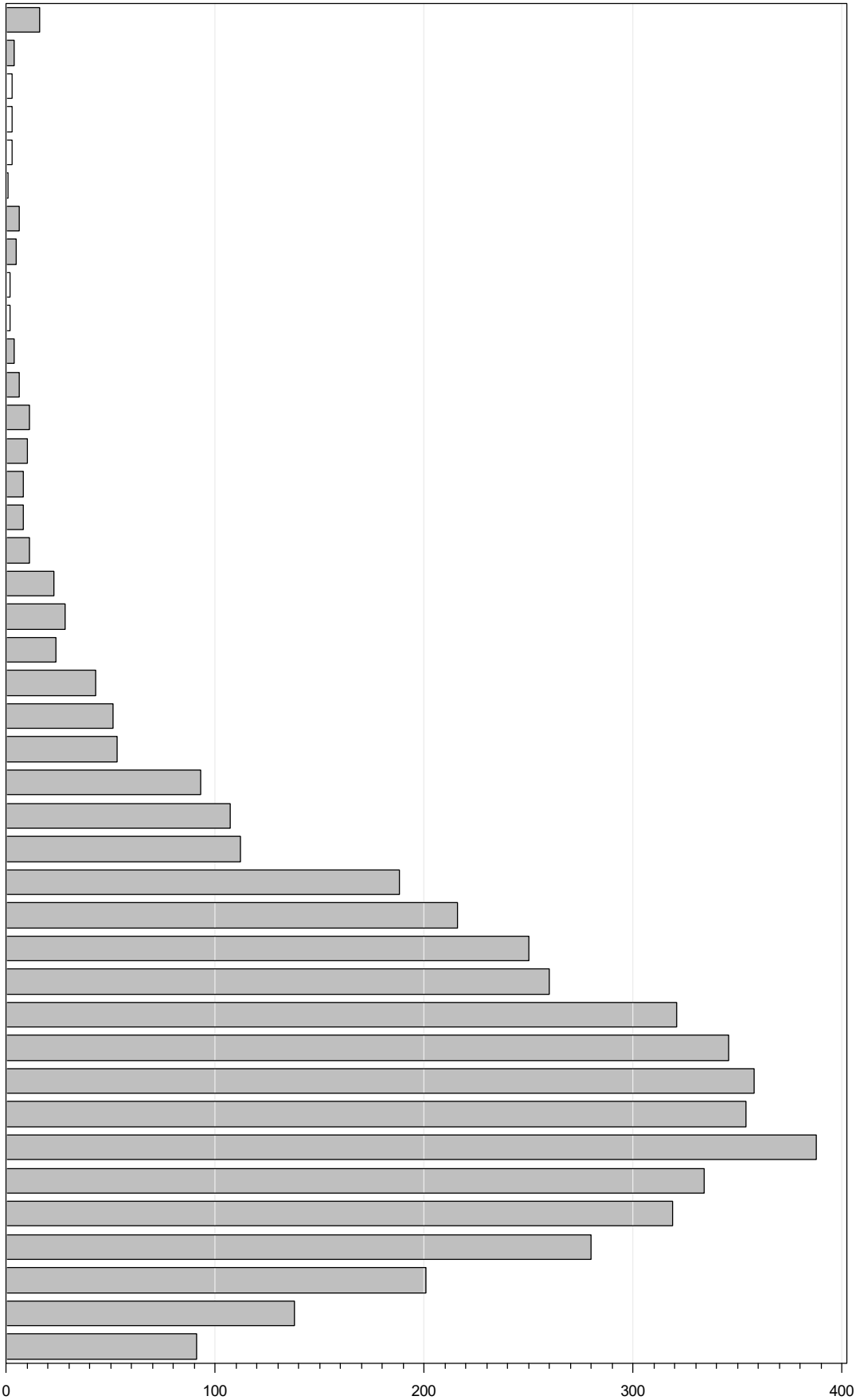
STAAR ALTERNATE 2 SPRING 2017
GRADE 8 SCIENCE
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
129	16	16	0.34	0.34
169	2	18	0.04	0.38
191	5	23	0.11	0.49
204	1	24	0.02	0.51
213	3	27	0.06	0.58
221	3	30	0.06	0.64
228	4	34	0.09	0.73
234	2	36	0.04	0.77
240	3	39	0.06	0.83
246	4	43	0.09	0.92
251	5	48	0.11	1.03
256	3	51	0.06	1.09
262	6	57	0.13	1.22
266	9	66	0.19	1.41
271	10	76	0.21	1.62
276	9	85	0.19	1.82
281	13	98	0.28	2.09
285	15	113	0.32	2.41
290	29	142	0.62	3.03
294	35	177	0.75	3.78
300	49	226	1.05	4.83
303	38	264	0.81	5.64
307	51	315	1.09	6.73
312	70	385	1.50	8.23
316	89	474	1.90	10.13
321	119	593	2.54	12.67
325	130	723	2.78	15.45
329	154	877	3.29	18.74
334	172	1049	3.68	22.41
339	235	1284	5.02	27.44
344	283	1567	6.05	33.48
349	260	1827	5.56	39.04
355	328	2155	7.01	46.05
361	394	2549	8.42	54.47
368	391	2940	8.35	62.82
375	390	3330	8.33	71.15
382	390	3720	8.33	79.49
395	350	4070	7.48	86.97
411	293	4363	6.26	93.23
437	196	4559	4.19	97.41
483	121	4680	2.59	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

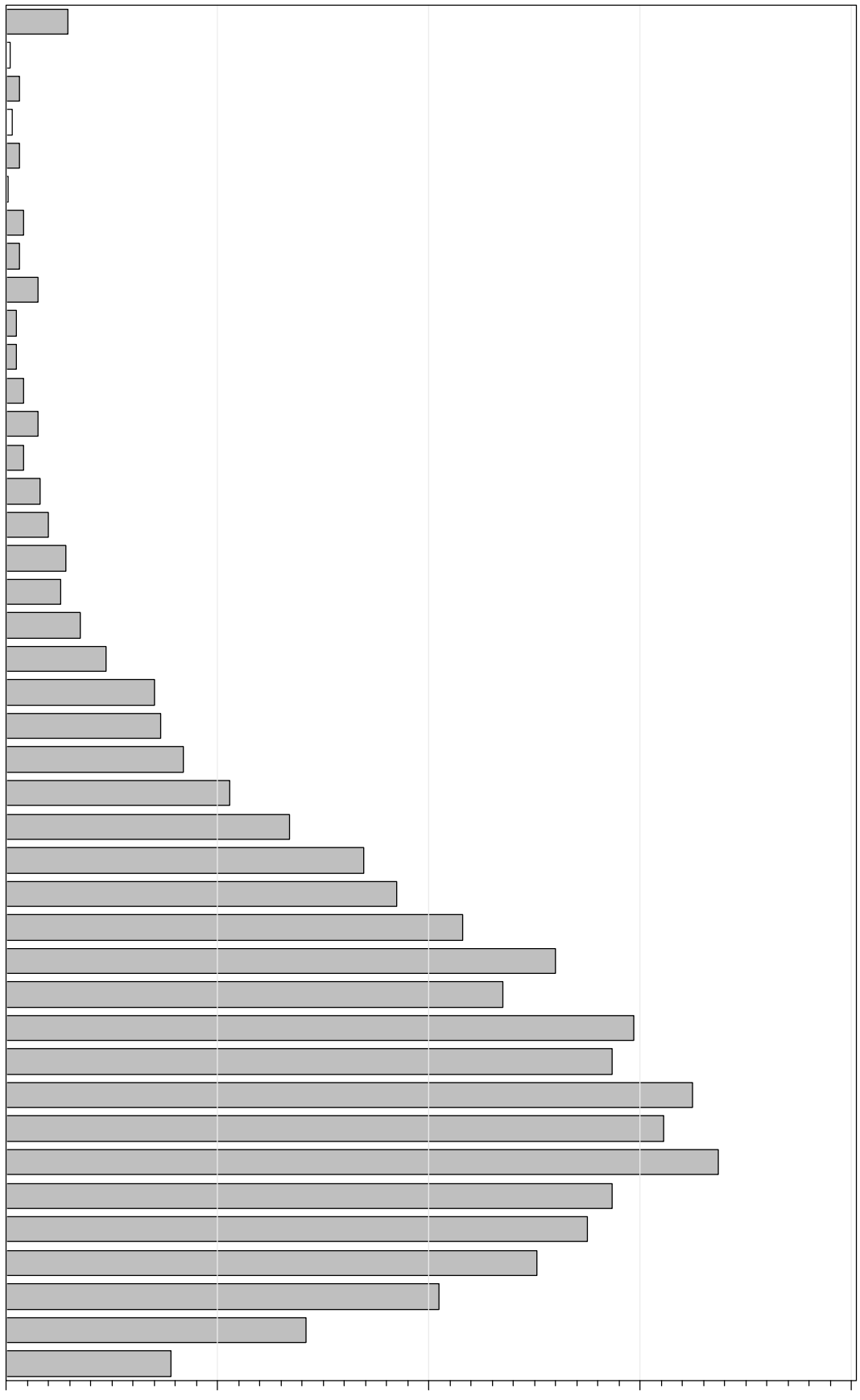
STAAR ALTERNATE 2 SPRING 2017
GRADE 8 SOCIAL STUDIES
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
101	16	16	0.34	0.34
142	4	20	0.09	0.43
166	3	23	0.06	0.49
181	3	26	0.06	0.56
192	3	29	0.06	0.62
201	1	30	0.02	0.64
210	6	36	0.13	0.77
217	5	41	0.11	0.88
224	2	43	0.04	0.92
231	2	45	0.04	0.96
237	4	49	0.09	1.05
243	6	55	0.13	1.17
249	11	66	0.23	1.41
255	10	76	0.21	1.62
260	8	84	0.17	1.79
265	8	92	0.17	1.97
271	11	103	0.23	2.20
276	23	126	0.49	2.69
281	28	154	0.60	3.29
286	24	178	0.51	3.80
291	43	221	0.92	4.72
295	51	272	1.09	5.81
300	53	325	1.13	6.94
305	93	418	1.99	8.93
310	107	525	2.29	11.22
314	112	637	2.39	13.61
319	188	825	4.02	17.62
324	216	1041	4.61	22.24
329	250	1291	5.34	27.58
334	260	1551	5.55	33.13
339	321	1872	6.86	39.99
344	346	2218	7.39	47.38
350	358	2576	7.65	55.03
356	354	2930	7.56	62.59
363	388	3318	8.29	70.88
372	334	3652	7.14	78.02
380	319	3971	6.81	84.83
392	280	4251	5.98	90.81
408	201	4452	4.29	95.11
436	138	4590	2.95	98.06
484	91	4681	1.94	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

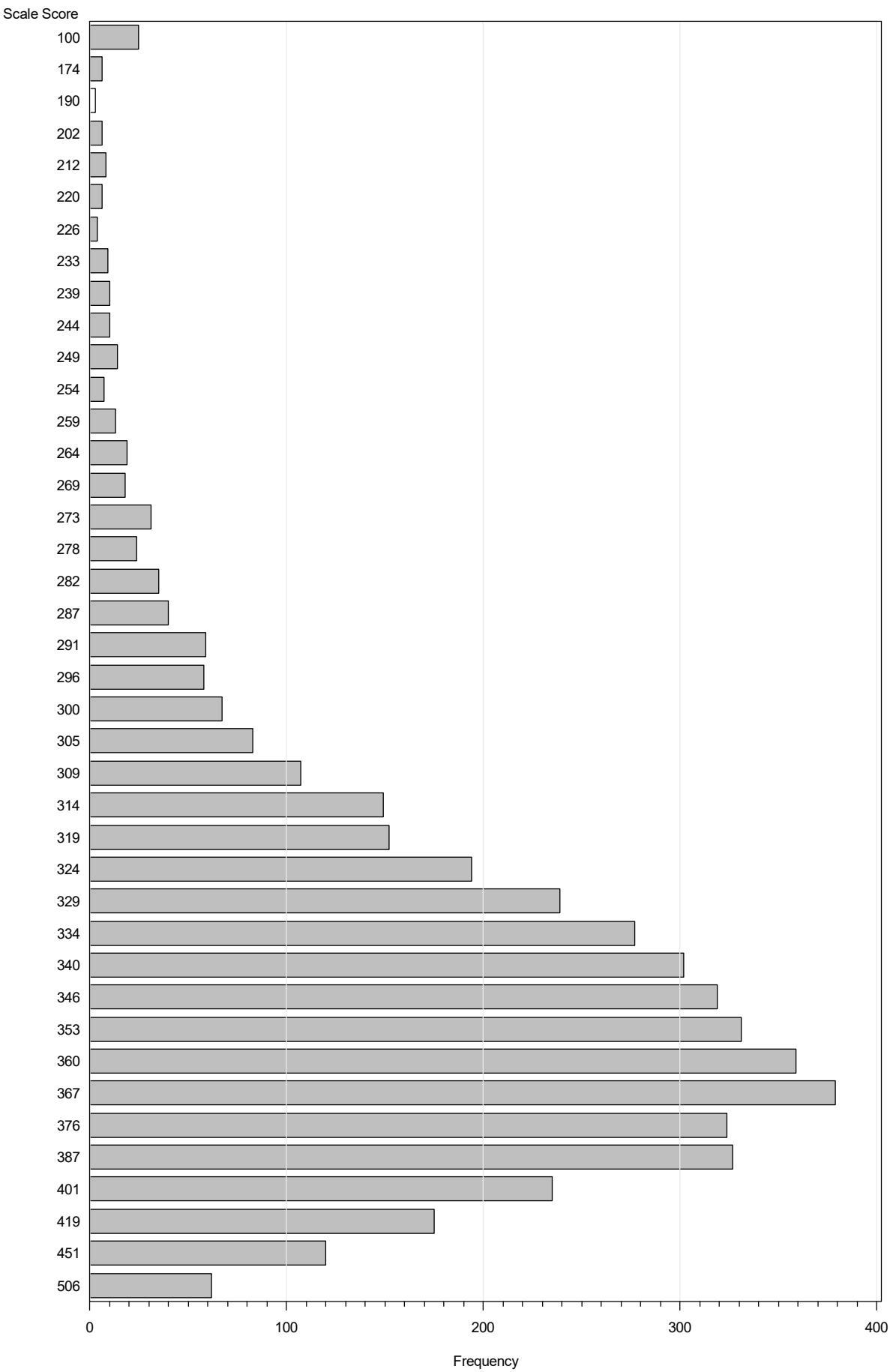
STAAR ALTERNATE 2 EOC SPRING 2017
ALGEBRA I
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	29	29	0.63	0.63
141	2	31	0.04	0.67
169	6	37	0.13	0.80
185	3	40	0.06	0.87
197	6	46	0.13	1.00
206	1	47	0.02	1.02
215	8	55	0.17	1.19
222	6	61	0.13	1.32
229	15	76	0.32	1.65
235	5	81	0.11	1.75
241	5	86	0.11	1.86
247	8	94	0.17	2.04
252	15	109	0.32	2.36
258	8	117	0.17	2.53
263	16	133	0.35	2.88
268	20	153	0.43	3.31
273	28	181	0.61	3.92
278	26	207	0.56	4.48
282	35	242	0.76	5.24
287	47	289	1.02	6.26
292	70	359	1.52	7.78
296	73	432	1.58	9.36
300	84	516	1.82	11.18
305	106	622	2.30	13.47
310	134	756	2.90	16.38
315	169	925	3.66	20.04
319	185	1110	4.01	24.05
324	216	1326	4.68	28.73
329	260	1586	5.63	34.36
334	235	1821	5.09	39.45
340	297	2118	6.43	45.88
345	287	2405	6.22	52.10
351	325	2730	7.04	59.14
361	311	3041	6.74	65.88
366	337	3378	7.30	73.18
374	287	3665	6.22	79.40
384	275	3940	5.96	85.36
397	251	4191	5.44	90.79
415	205	4396	4.44	95.23
446	142	4538	3.08	98.31
501	78	4616	1.69	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

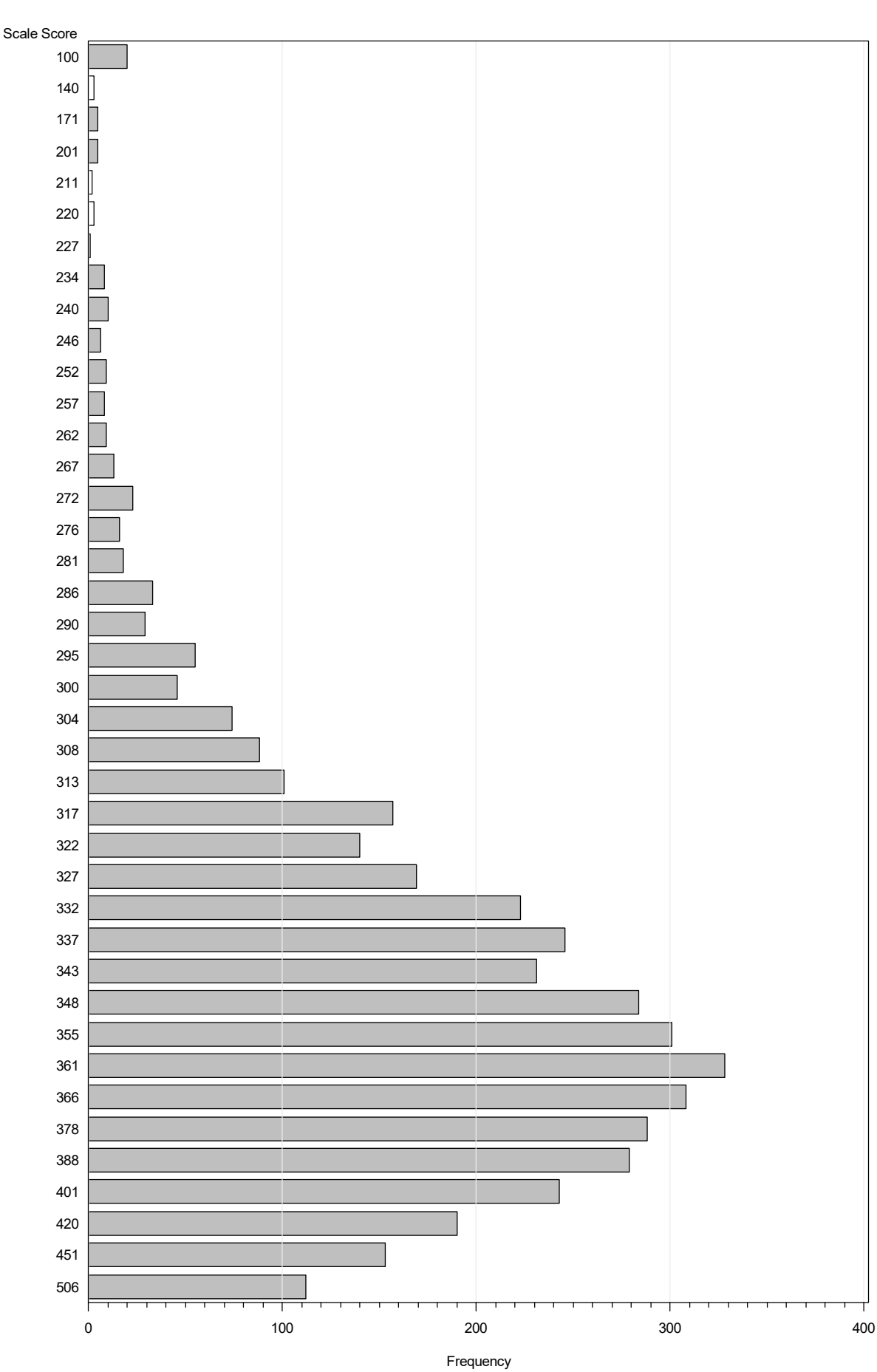
STAAR ALTERNATE 2 EOC SPRING 2017
ENGLISH I
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	25	25	0.54	0.54
174	6	31	0.13	0.67
190	3	34	0.07	0.74
202	6	40	0.13	0.87
212	8	48	0.17	1.04
220	6	54	0.13	1.17
226	4	58	0.09	1.26
233	9	67	0.20	1.45
239	10	77	0.22	1.67
244	10	87	0.22	1.89
249	14	101	0.30	2.19
254	7	108	0.15	2.34
259	13	121	0.28	2.63
264	19	140	0.41	3.04
269	18	158	0.39	3.43
273	31	189	0.67	4.10
278	24	213	0.52	4.62
282	35	248	0.76	5.38
287	40	288	0.87	6.25
291	59	347	1.28	7.53
296	58	405	1.26	8.79
300	67	472	1.45	10.25
305	83	555	1.80	12.05
309	107	662	2.32	14.37
314	149	811	3.23	17.61
319	152	963	3.30	20.91
324	194	1157	4.21	25.12
329	239	1396	5.19	30.31
334	277	1673	6.01	36.32
340	302	1975	6.56	42.88
346	319	2294	6.93	49.80
353	331	2625	7.19	56.99
360	359	2984	7.79	64.79
367	379	3363	8.23	73.01
376	324	3687	7.03	80.05
387	327	4014	7.10	87.15
401	235	4249	5.10	92.25
419	175	4424	3.80	96.05
451	120	4544	2.61	98.65
506	62	4606	1.35	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

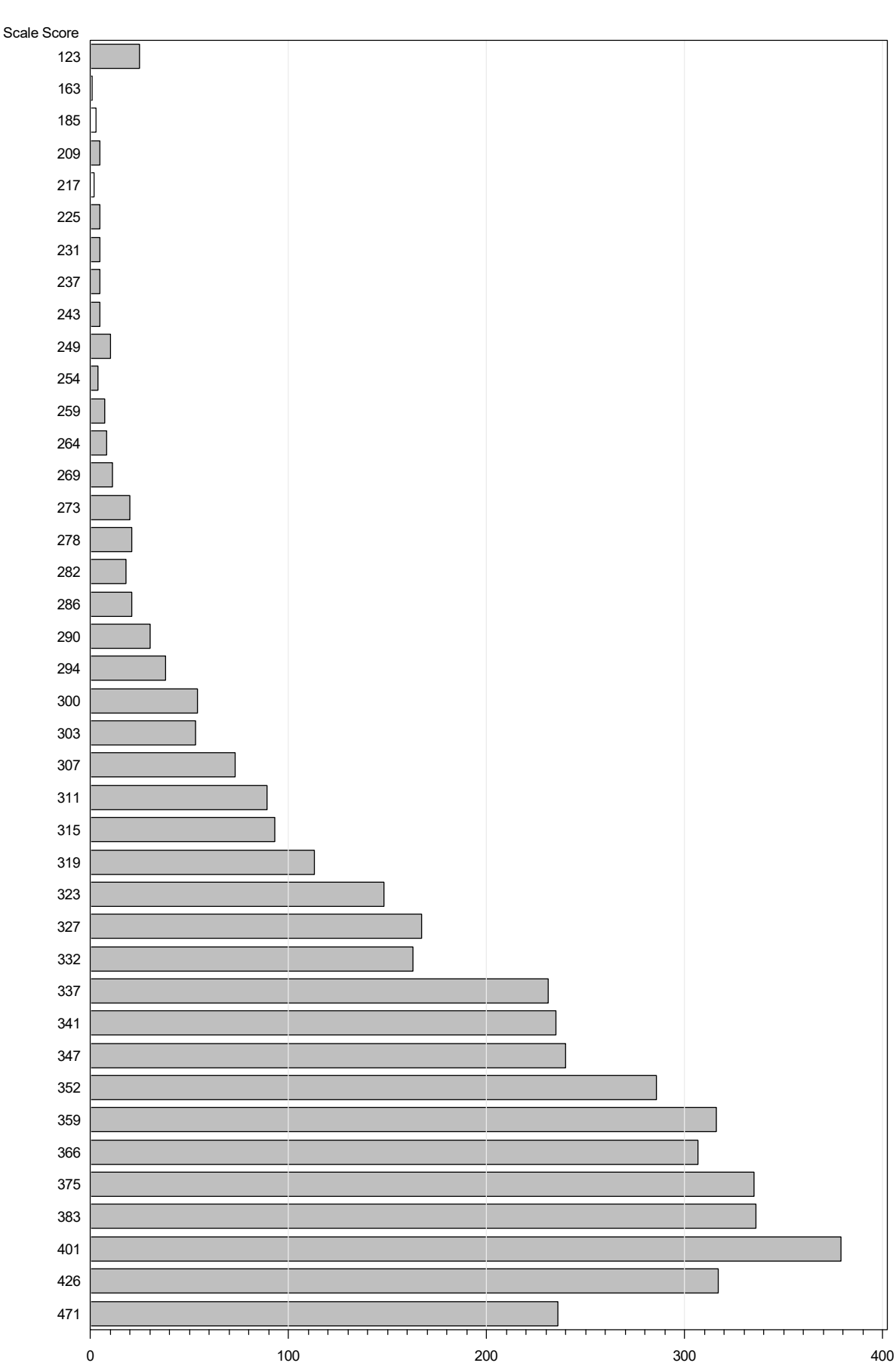
STAAR ALTERNATE 2 EOC SPRING 2017
ENGLISH II
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	20	20	0.47	0.47
140	3	23	0.07	0.54
171	5	28	0.12	0.66
201	5	33	0.12	0.78
211	2	35	0.05	0.83
220	3	38	0.07	0.90
227	1	39	0.02	0.92
234	8	47	0.19	1.11
240	10	57	0.24	1.35
246	6	63	0.14	1.49
252	9	72	0.21	1.70
257	8	80	0.19	1.89
262	9	89	0.21	2.10
267	13	102	0.31	2.41
272	23	125	0.54	2.95
276	16	141	0.38	3.33
281	18	159	0.42	3.75
286	33	192	0.78	4.53
290	29	221	0.68	5.22
295	55	276	1.30	6.51
300	46	322	1.09	7.60
304	74	396	1.75	9.35
308	88	484	2.08	11.42
313	101	585	2.38	13.81
317	157	742	3.71	17.51
322	140	882	3.30	20.82
327	169	1051	3.99	24.81
332	223	1274	5.26	30.07
337	246	1520	5.81	35.87
343	231	1751	5.45	41.33
348	284	2035	6.70	48.03
355	301	2336	7.10	55.13
361	328	2664	7.74	62.87
366	308	2972	7.27	70.14
378	288	3260	6.80	76.94
388	279	3539	6.58	83.53
401	243	3782	5.74	89.26
420	190	3972	4.48	93.75
451	153	4125	3.61	97.36
506	112	4237	2.64	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

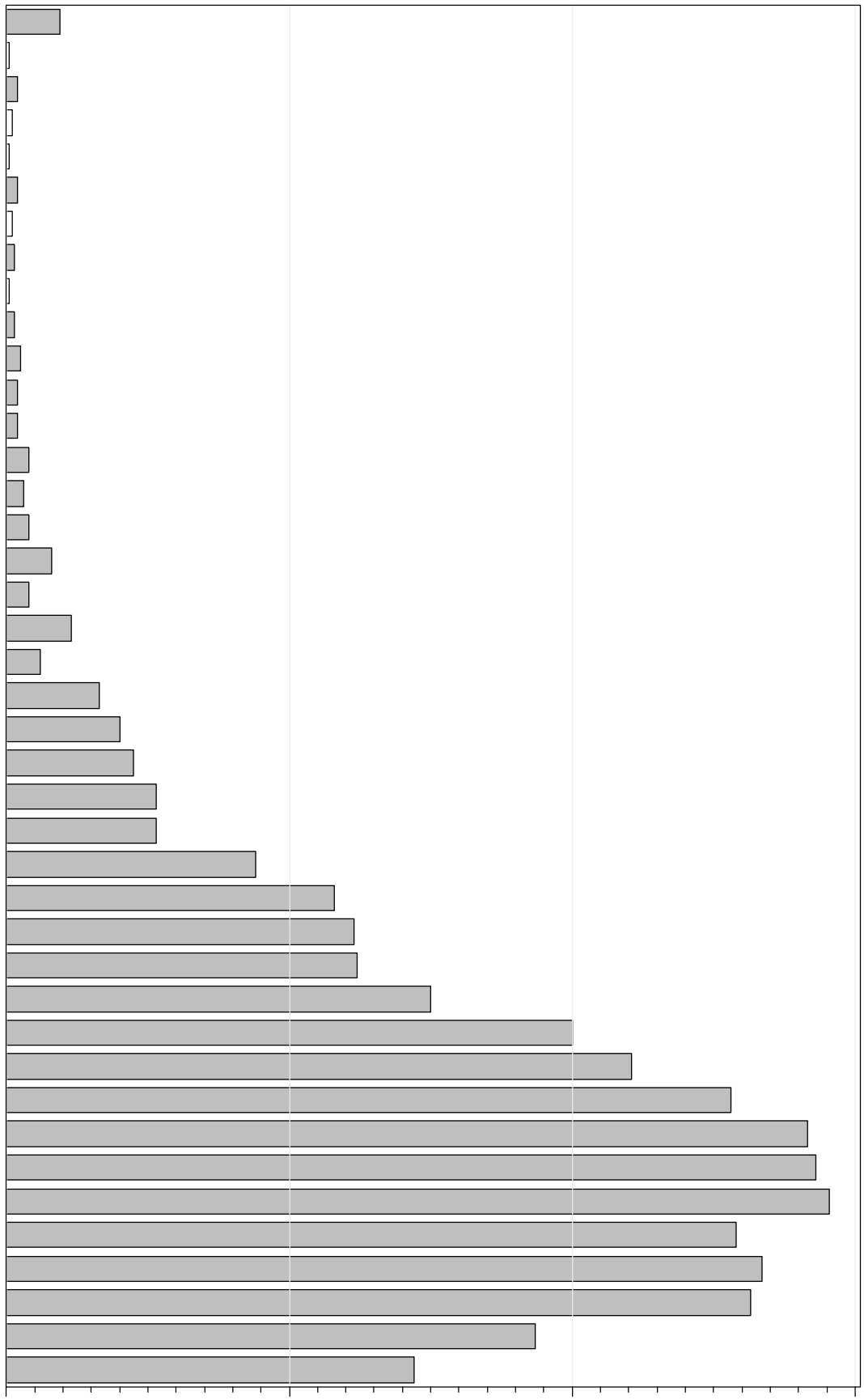
STAAR ALTERNATE 2 EOC SPRING 2017
BIOLOGY
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
123	25	25	0.57	0.57
163	1	26	0.02	0.59
185	3	29	0.07	0.66
209	5	34	0.11	0.77
217	2	36	0.05	0.82
225	5	41	0.11	0.93
231	5	46	0.11	1.04
237	5	51	0.11	1.16
243	5	56	0.11	1.27
249	10	66	0.23	1.49
254	4	70	0.09	1.59
259	7	77	0.16	1.74
264	8	85	0.18	1.93
269	11	96	0.25	2.17
273	20	116	0.45	2.63
278	21	137	0.48	3.10
282	18	155	0.41	3.51
286	21	176	0.48	3.99
290	30	206	0.68	4.67
294	38	244	0.86	5.53
300	54	298	1.22	6.75
303	53	351	1.20	7.95
307	73	424	1.65	9.60
311	89	513	2.02	11.62
315	93	606	2.11	13.73
319	113	719	2.56	16.29
323	148	867	3.35	19.64
327	167	1034	3.78	23.42
332	163	1197	3.69	27.11
337	231	1428	5.23	32.34
341	235	1663	5.32	37.67
347	240	1903	5.44	43.10
352	286	2189	6.48	49.58
359	316	2505	7.16	56.74
366	307	2812	6.95	63.69
375	335	3147	7.59	71.28
383	336	3483	7.61	78.89
401	379	3862	8.58	87.47
426	317	4179	7.18	94.65
471	236	4415	5.35	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

STAAR ALTERNATE 2 EOC SPRING 2017
U.S. HISTORY
ALL STUDENTS



Scale Score	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	19	19	0.53	0.53
142	1	20	0.03	0.55
166	4	24	0.11	0.66
180	2	26	0.06	0.72
190	1	27	0.03	0.75
198	4	31	0.11	0.86
206	2	33	0.06	0.91
212	3	36	0.08	1.00
218	1	37	0.03	1.02
224	3	40	0.08	1.11
229	5	45	0.14	1.24
235	4	49	0.11	1.36
240	4	53	0.11	1.47
245	8	61	0.22	1.69
250	6	67	0.17	1.85
254	8	75	0.22	2.07
259	16	91	0.44	2.52
264	8	99	0.22	2.74
268	23	122	0.64	3.37
273	12	134	0.33	3.71
277	33	167	0.91	4.62
282	40	207	1.11	5.73
287	45	252	1.24	6.97
291	53	305	1.47	8.44
296	53	358	1.47	9.90
300	88	446	2.43	12.34
305	116	562	3.21	15.55
310	123	685	3.40	18.95
315	124	809	3.43	22.38
320	150	959	4.15	26.53
325	200	1159	5.53	32.06
331	221	1380	6.11	38.17
337	256	1636	7.08	45.26
344	283	1919	7.83	53.08
351	286	2205	7.91	61.00
359	291	2496	8.05	69.05
368	258	2754	7.14	76.18
381	267	3021	7.39	83.57
398	263	3284	7.28	90.84
426	187	3471	5.17	96.02
475	144	3615	3.98	100.00