STAAR Alternate 2
2016 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 2016 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 2016 STAAR Alternate 2 3–8 Assessments

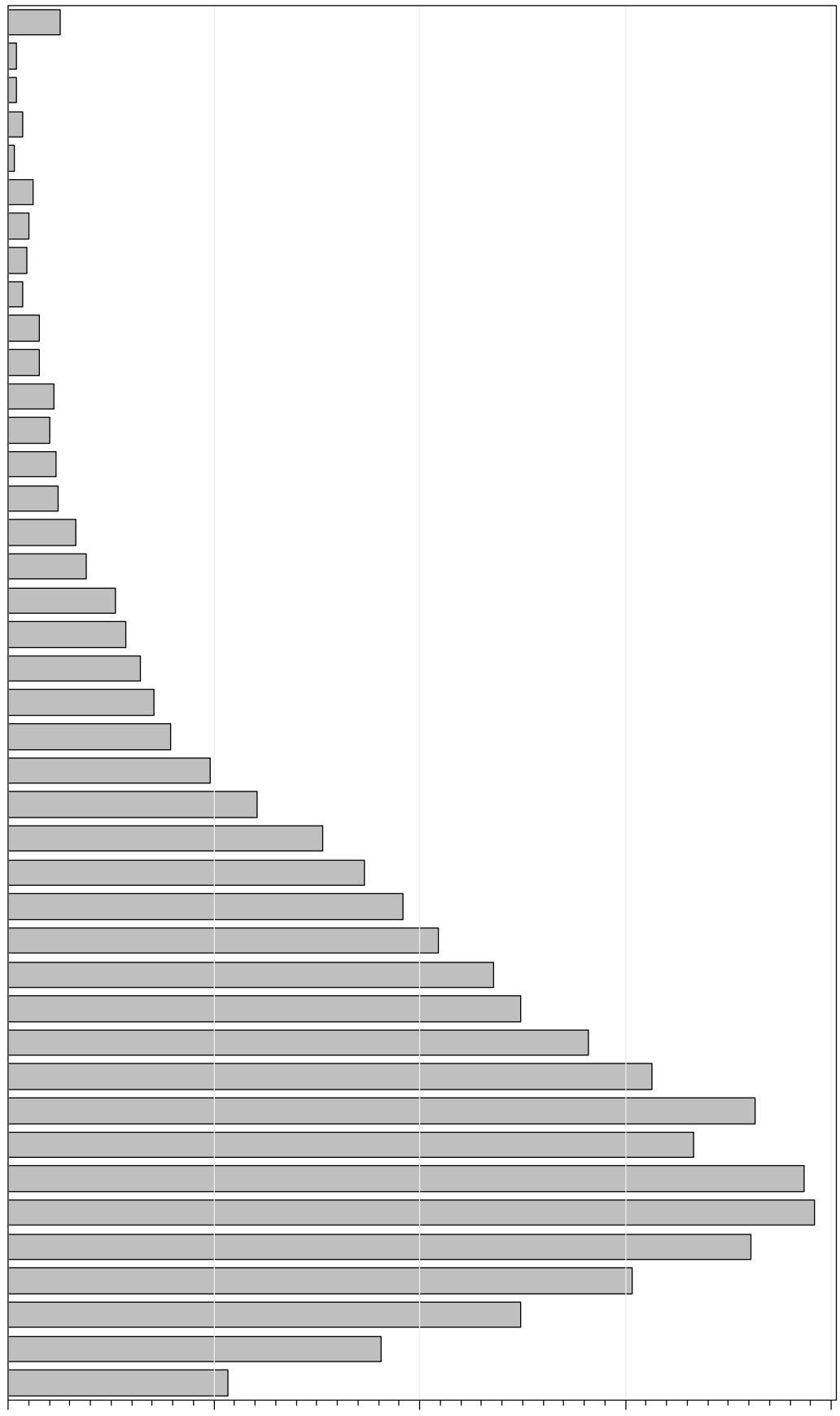
Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
GRADE 3 MATHEMATICS	5296	350.57	353	375	379	54	47.78	2282.95	-0.3167	3.4082
GRADE 4 MATHEMATICS	5218	357.11	355	377	376	55	47.69	2274.45	-0.2545	3.2769
GRADE 5 MATHEMATICS	5008	354.94	354	369	373	53	47.72	2277.66	-0.0134	2.3900
GRADE 6 MATHEMATICS	4833	353.78	353	353	407	52	49.23	2423.71	-0.1697	3.8055
GRADE 7 MATHEMATICS	4474	352.55	352	352	398	46	47.13	2221.20	-0.1377	3.6340
GRADE 8 MATHEMATICS	4338	341.36	342	365	390	51	50.88	2588.95	-0.1797	3.5234
GRADE 3 READING	5300	340.22	339	369	375	56	47.91	2294.92	-0.3181	3.6743
GRADE 4 READING	5216	345.74	346	362	383	51	47.63	2268.96	-0.3941	3.5750
GRADE 5 READING	5010	342.35	339	354	395	42	44.54	1984.25	-0.2116	3.8679
GRADE 6 READING	4831	342.74	338	361	382	56	48.73	2375.10	-0.1453	2.9106
GRADE 7 READING	4470	340.89	338	352	385	46	46.29	2142.45	-0.2189	3.2986
GRADE 8 READING	4354	341.58	336	343	374	52	48.34	2336.78	-0.2985	3.9009
GRADE 4 WRITING	5215	336.81	336	348	403	49	47.05	2214.03	-0.3802	4.9414
GRADE 7 WRITING	4477	334.95	331	343	381	50	45.66	2085.15	-0.2868	4.0698
GRADE 5 SCIENCE	5009	363.04	361	377	396	51	46.72	2182.71	-0.3046	3.6255
GRADE 8 SCIENCE	4357	362.57	359	365	354	48	48.67	2369.13	-0.2243	3.0315
GRADE 8 SOCIAL STUDIES	4359	348.74	347	362	375	48	48.17	2320.75	-0.3052	3.6926

Scale Score Descriptive Statistics for 2016 STAAR Alternate 2 EOC Assessments

Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
ALGEBRA I	4311	341.38	344	350	392	50	49.79	2479.15	-0.3062	3.8704
ENGLISH I	4261	345.51	345	351	392	49	49.51	2451.71	-0.2476	3.6347
ENGLISH II	3636	348.90	345	366	405	51	47.41	2247.62	-0.4981	5.0148
BIOLOGY	4097	358.68	356	383	342	54	49.92	2491.88	-0.2825	2.4168
U.S. HISTORY	3516	342.22	338	368	366	51	46.92	2201.80	-0.4148	3.8437

FREQUENCY DISTRIBUTION - SCALE SCORES

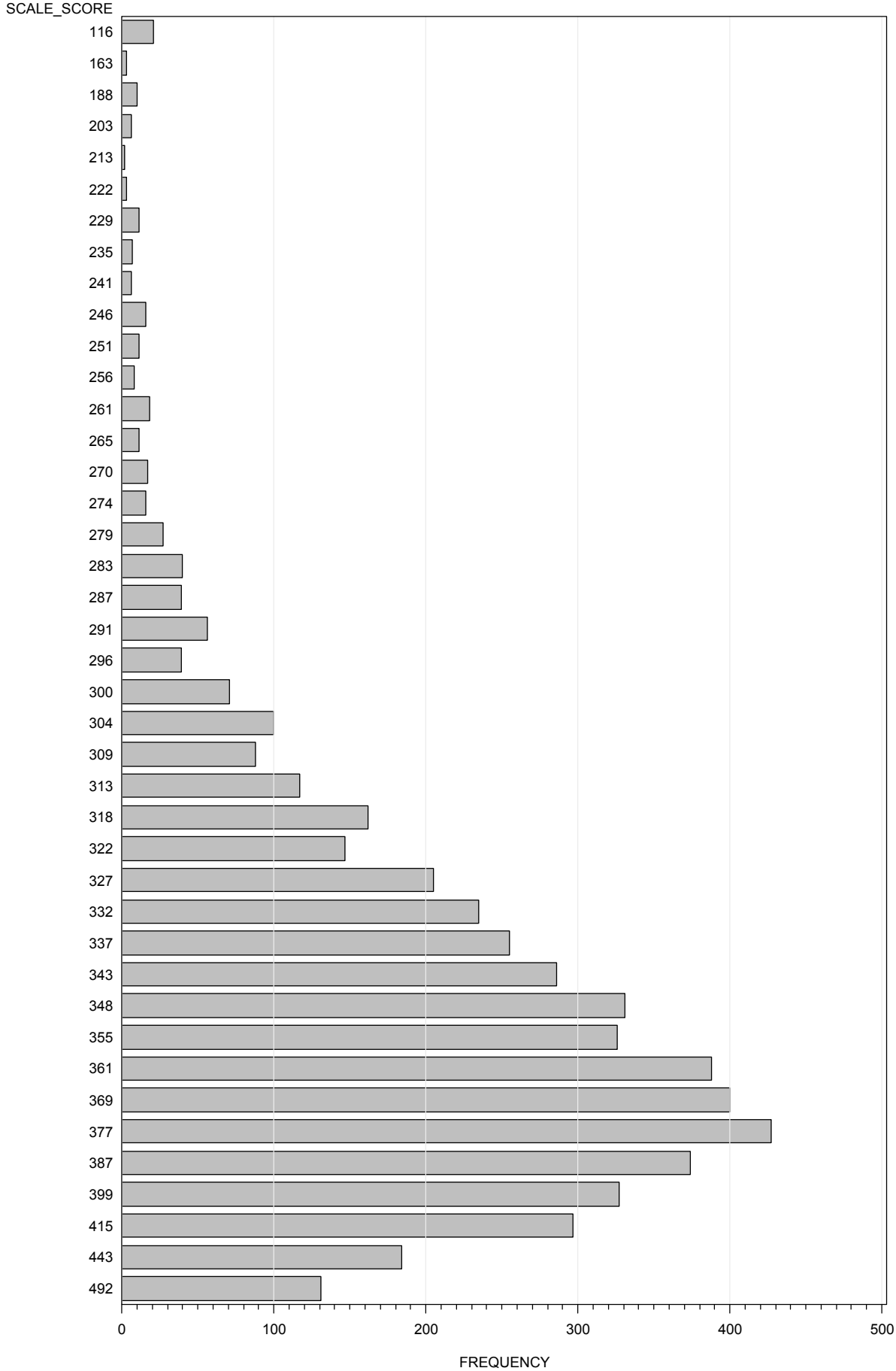
STAAR ALTERNATE 2 SPRING 2016
GRADE 3 MATHEMATICS
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
111	25	25	0.47	0.47
159	4	29	0.08	0.55
186	4	33	0.08	0.62
201	7	40	0.13	0.76
212	3	43	0.06	0.81
221	12	55	0.23	1.04
229	10	65	0.19	1.23
236	9	74	0.17	1.40
242	7	81	0.13	1.53
247	15	96	0.28	1.81
252	15	111	0.28	2.10
257	22	133	0.42	2.51
262	20	153	0.38	2.89
267	23	176	0.43	3.32
271	24	200	0.45	3.78
275	33	233	0.62	4.40
280	38	271	0.72	5.12
284	52	323	0.98	6.10
288	57	380	1.08	7.18
292	64	444	1.21	8.38
296	71	515	1.34	9.72
300	79	594	1.49	11.22
304	98	692	1.85	13.07
308	121	813	2.28	15.35
313	153	966	2.89	18.24
317	173	1139	3.27	21.51
321	192	1331	3.63	25.13
326	209	1540	3.95	29.08
331	236	1776	4.46	33.53
336	249	2025	4.70	38.24
341	282	2307	5.32	43.56
347	313	2620	5.91	49.47
353	363	2983	6.85	56.33
359	333	3316	6.29	62.61
367	387	3703	7.31	69.92
375	392	4095	7.40	77.32
384	361	4456	6.82	84.14
396	303	4759	5.72	89.86
413	249	5008	4.70	94.56
440	181	5189	3.42	97.98
490	107	5296	2.02	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

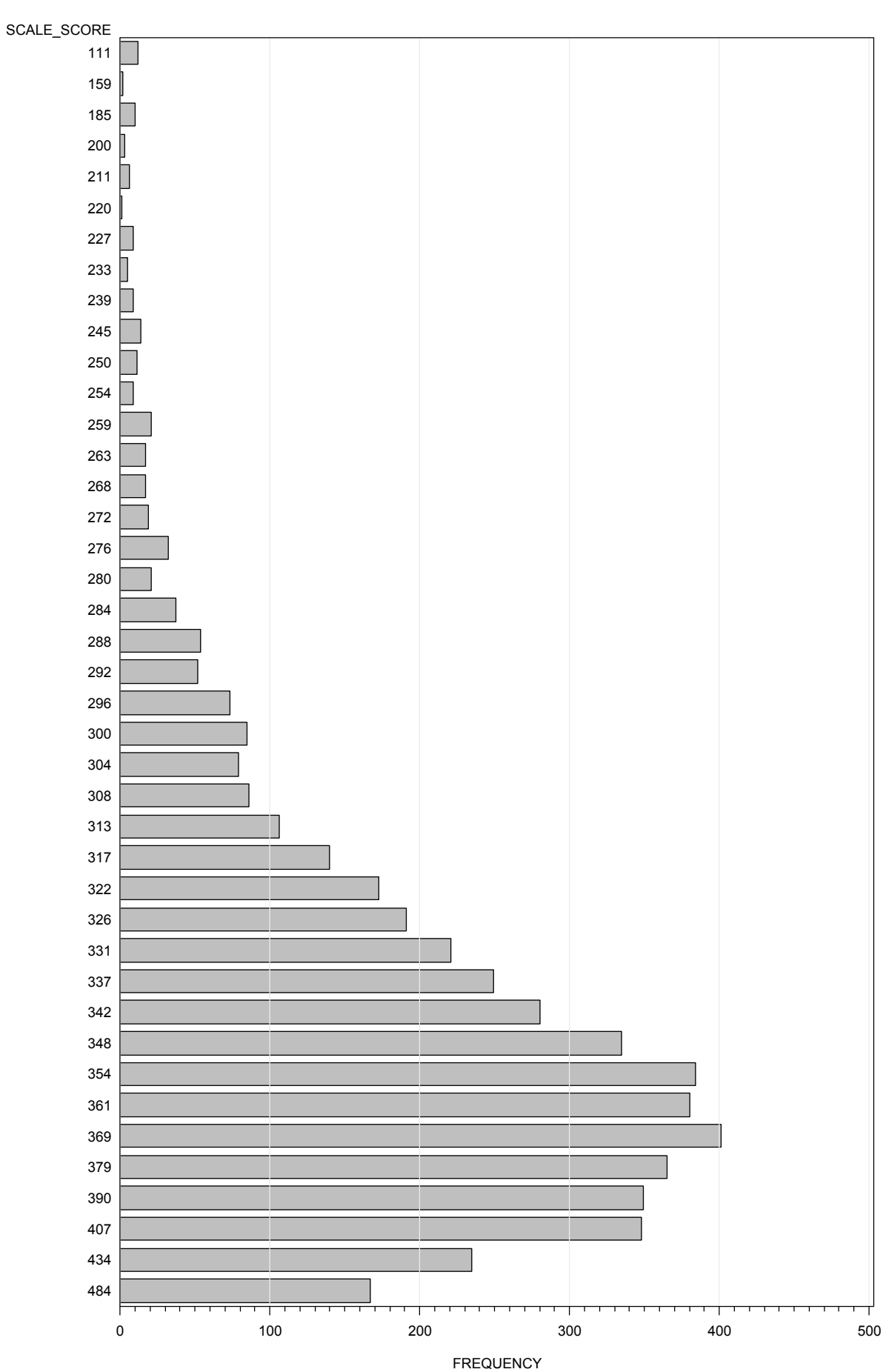
STAAR ALTERNATE 2 SPRING 2016
GRADE 4 MATHEMATICS
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
116	21	21	0.40	0.40
163	3	24	0.06	0.46
188	10	34	0.19	0.65
203	6	40	0.11	0.77
213	2	42	0.04	0.80
222	3	45	0.06	0.86
229	11	56	0.21	1.07
235	7	63	0.13	1.21
241	6	69	0.11	1.32
246	16	85	0.31	1.63
251	11	96	0.21	1.84
256	8	104	0.15	1.99
261	18	122	0.34	2.34
265	11	133	0.21	2.55
270	17	150	0.33	2.87
274	16	166	0.31	3.18
279	27	193	0.52	3.70
283	40	233	0.77	4.47
287	39	272	0.75	5.21
291	56	328	1.07	6.29
296	39	367	0.75	7.03
300	71	438	1.36	8.39
304	100	538	1.92	10.31
309	88	626	1.69	12.00
313	117	743	2.24	14.24
318	162	905	3.10	17.34
322	147	1052	2.82	20.16
327	205	1257	3.93	24.09
332	235	1492	4.50	28.59
337	255	1747	4.89	33.48
343	286	2033	5.48	38.96
348	331	2364	6.34	45.30
355	326	2690	6.25	51.55
361	388	3078	7.44	58.99
369	400	3478	7.67	66.65
377	427	3905	8.18	74.84
387	374	4279	7.17	82.00
399	327	4606	6.27	88.27
415	297	4903	5.69	93.96
443	184	5087	3.53	97.49
492	131	5218	2.51	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

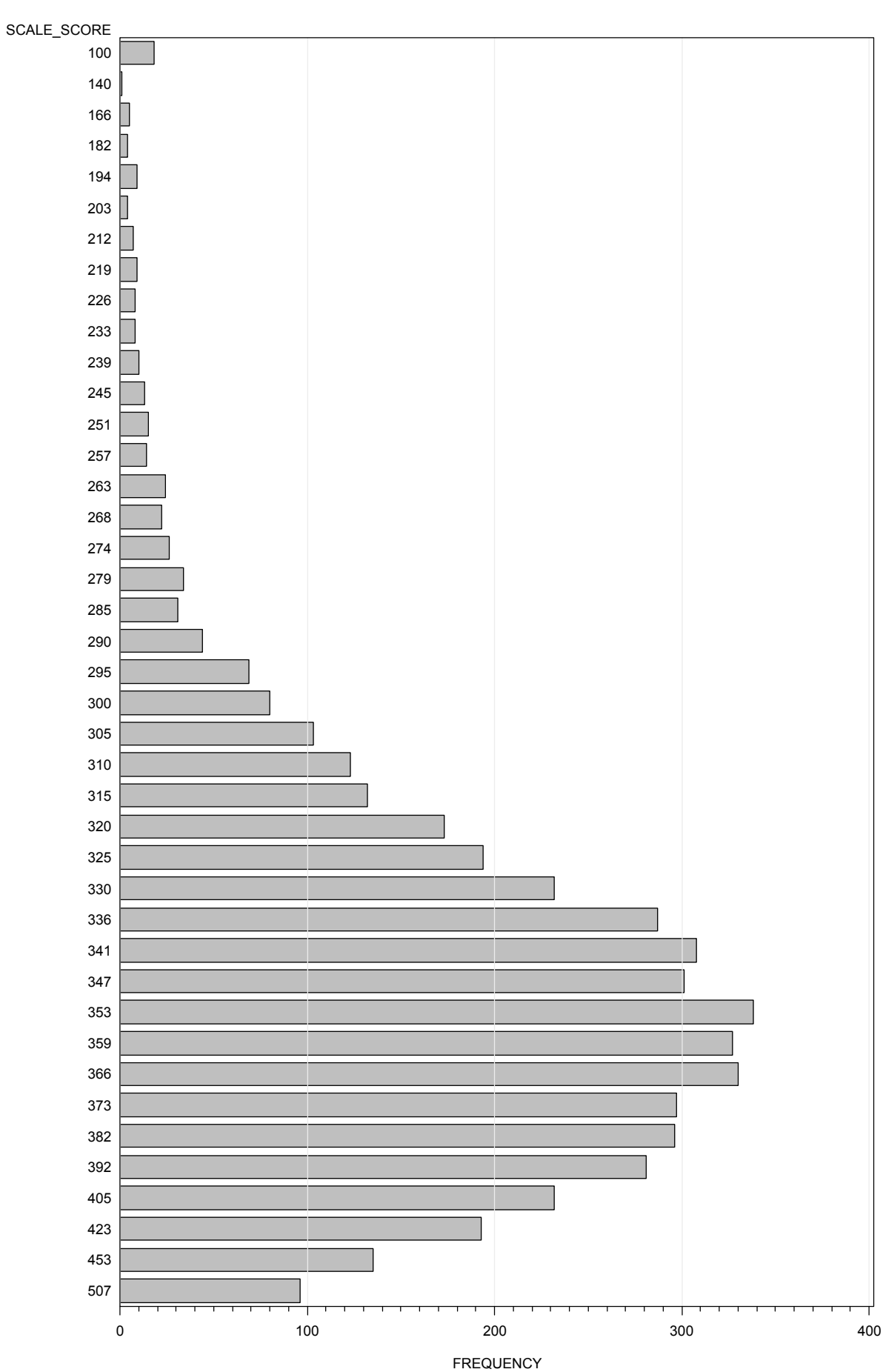
STAAR ALTERNATE 2 SPRING 2016
GRADE 5 MATHEMATICS
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
111	12	12	0.24	0.24
159	2	14	0.04	0.28
185	10	24	0.20	0.48
200	3	27	0.06	0.54
211	6	33	0.12	0.66
220	1	34	0.02	0.68
227	9	43	0.18	0.86
233	5	48	0.10	0.96
239	9	57	0.18	1.14
245	14	71	0.28	1.42
250	11	82	0.22	1.64
254	9	91	0.18	1.82
259	21	112	0.42	2.24
263	17	129	0.34	2.58
268	17	146	0.34	2.92
272	19	165	0.38	3.29
276	32	197	0.64	3.93
280	21	218	0.42	4.35
284	37	255	0.74	5.09
288	54	309	1.08	6.17
292	52	361	1.04	7.21
296	73	434	1.46	8.67
300	85	519	1.70	10.36
304	79	598	1.58	11.94
308	86	684	1.72	13.66
313	106	790	2.12	15.77
317	140	930	2.80	18.57
322	173	1103	3.45	22.02
326	191	1294	3.81	25.84
331	221	1515	4.41	30.25
337	249	1764	4.97	35.22
342	280	2044	5.59	40.81
348	335	2379	6.69	47.50
354	384	2763	7.67	55.17
361	380	3143	7.59	62.76
369	401	3544	8.01	70.77
379	365	3909	7.29	78.06
390	349	4258	6.97	85.02
407	348	4606	6.95	91.97
434	235	4841	4.69	96.67
484	167	5008	3.33	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

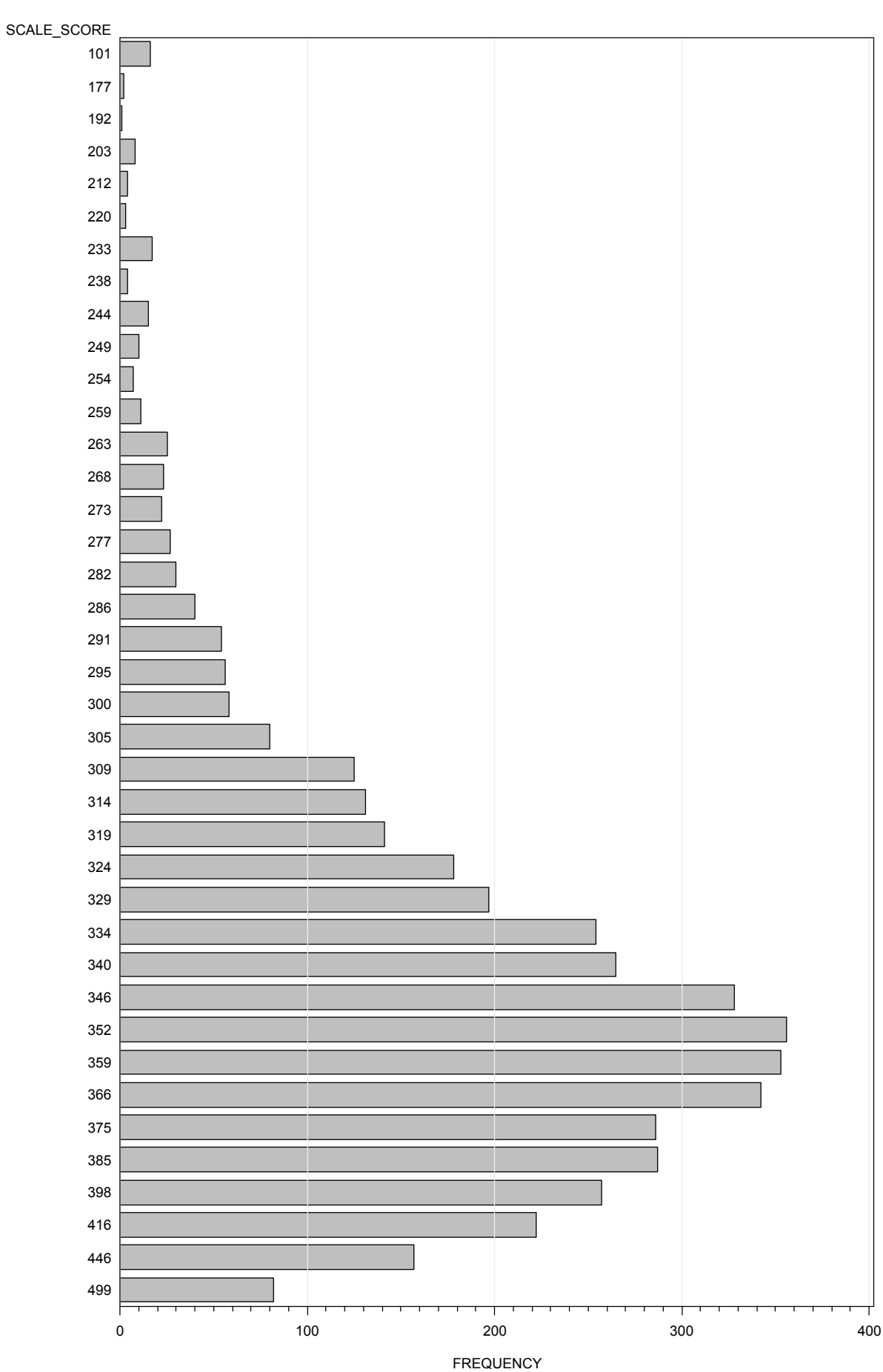
STAAR ALTERNATE 2 SPRING 2016
GRADE 6 MATHEMATICS
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	18	18	0.37	0.37
140	1	19	0.02	0.39
166	5	24	0.10	0.50
182	4	28	0.08	0.58
194	9	37	0.19	0.77
203	4	41	0.08	0.85
212	7	48	0.14	0.99
219	9	57	0.19	1.18
226	8	65	0.17	1.34
233	8	73	0.17	1.51
239	10	83	0.21	1.72
245	13	96	0.27	1.99
251	15	111	0.31	2.30
257	14	125	0.29	2.59
263	24	149	0.50	3.08
268	22	171	0.46	3.54
274	26	197	0.54	4.08
279	34	231	0.70	4.78
285	31	262	0.64	5.42
290	44	306	0.91	6.33
295	69	375	1.43	7.76
300	80	455	1.66	9.41
305	103	558	2.13	11.55
310	123	681	2.55	14.09
315	132	813	2.73	16.82
320	173	986	3.58	20.40
325	194	1180	4.01	24.42
330	232	1412	4.80	29.22
336	287	1699	5.94	35.15
341	308	2007	6.37	41.53
347	301	2308	6.23	47.76
353	338	2646	6.99	54.75
359	327	2973	6.77	61.51
366	330	3303	6.83	68.34
373	297	3600	6.15	74.49
382	296	3896	6.12	80.61
392	281	4177	5.81	86.43
405	232	4409	4.80	91.23
423	193	4602	3.99	95.22
453	135	4737	2.79	98.01
507	96	4833	1.99	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

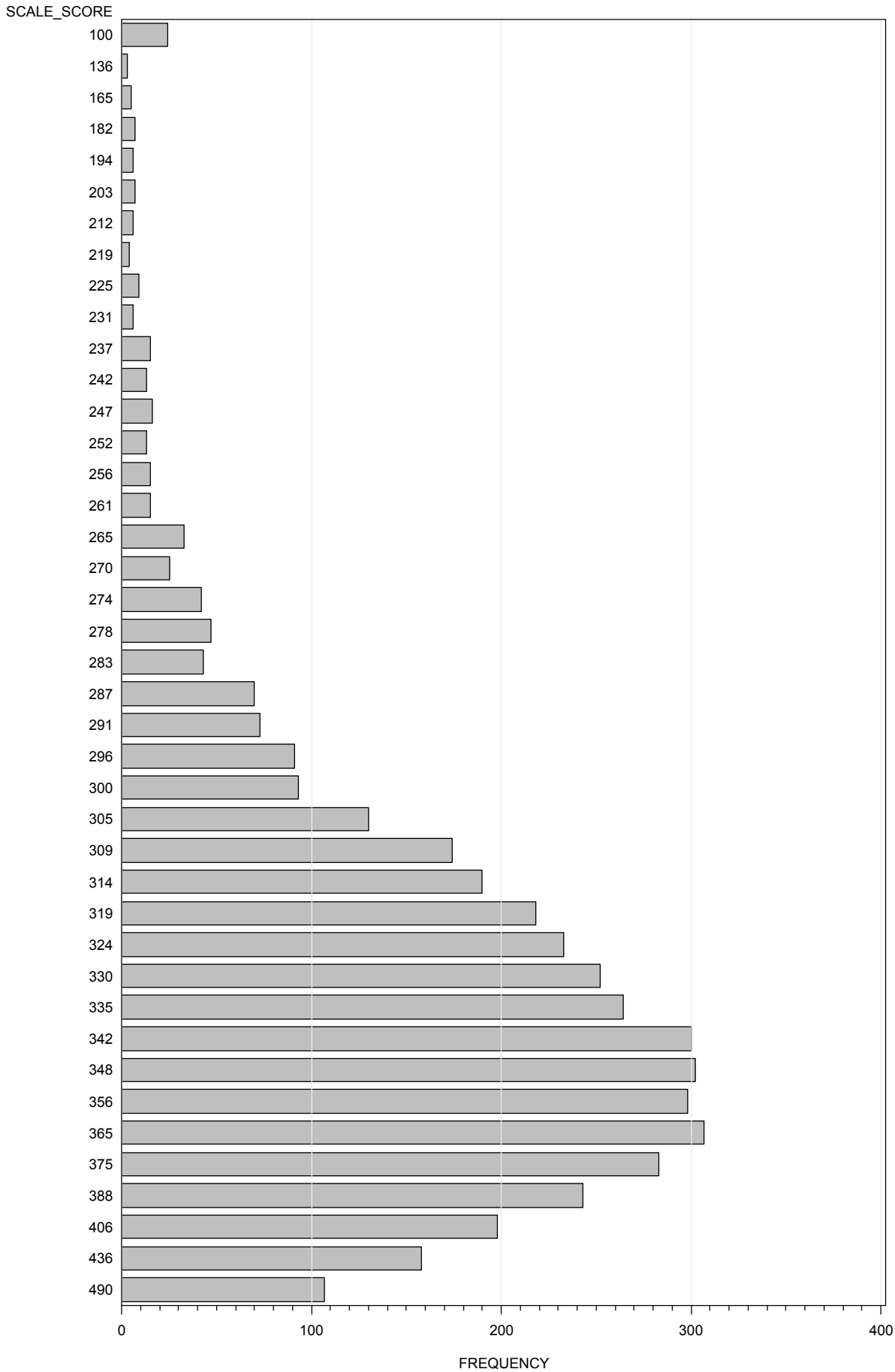
STAAR ALTERNATE 2 SPRING 2016
GRADE 7 MATHEMATICS
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
101	16	16	0.36	0.36
177	2	18	0.04	0.40
192	1	19	0.02	0.42
203	8	27	0.18	0.60
212	4	31	0.09	0.69
220	3	34	0.07	0.76
233	17	51	0.38	1.14
238	4	55	0.09	1.23
244	15	70	0.34	1.56
249	10	80	0.22	1.79
254	7	87	0.16	1.94
259	11	98	0.25	2.19
263	25	123	0.56	2.75
268	23	146	0.51	3.26
273	22	168	0.49	3.76
277	27	195	0.60	4.36
282	30	225	0.67	5.03
286	40	265	0.89	5.92
291	54	319	1.21	7.13
295	56	375	1.25	8.38
300	58	433	1.30	9.68
305	80	513	1.79	11.47
309	125	638	2.79	14.26
314	131	769	2.93	17.19
319	141	910	3.15	20.34
324	178	1088	3.98	24.32
329	197	1285	4.40	28.72
334	254	1539	5.68	34.40
340	265	1804	5.92	40.32
346	328	2132	7.33	47.65
352	356	2488	7.96	55.61
359	353	2841	7.89	63.50
366	342	3183	7.64	71.14
375	286	3469	6.39	77.54
385	287	3756	6.41	83.95
398	257	4013	5.74	89.70
416	222	4235	4.96	94.66
446	157	4392	3.51	98.17
499	82	4474	1.83	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

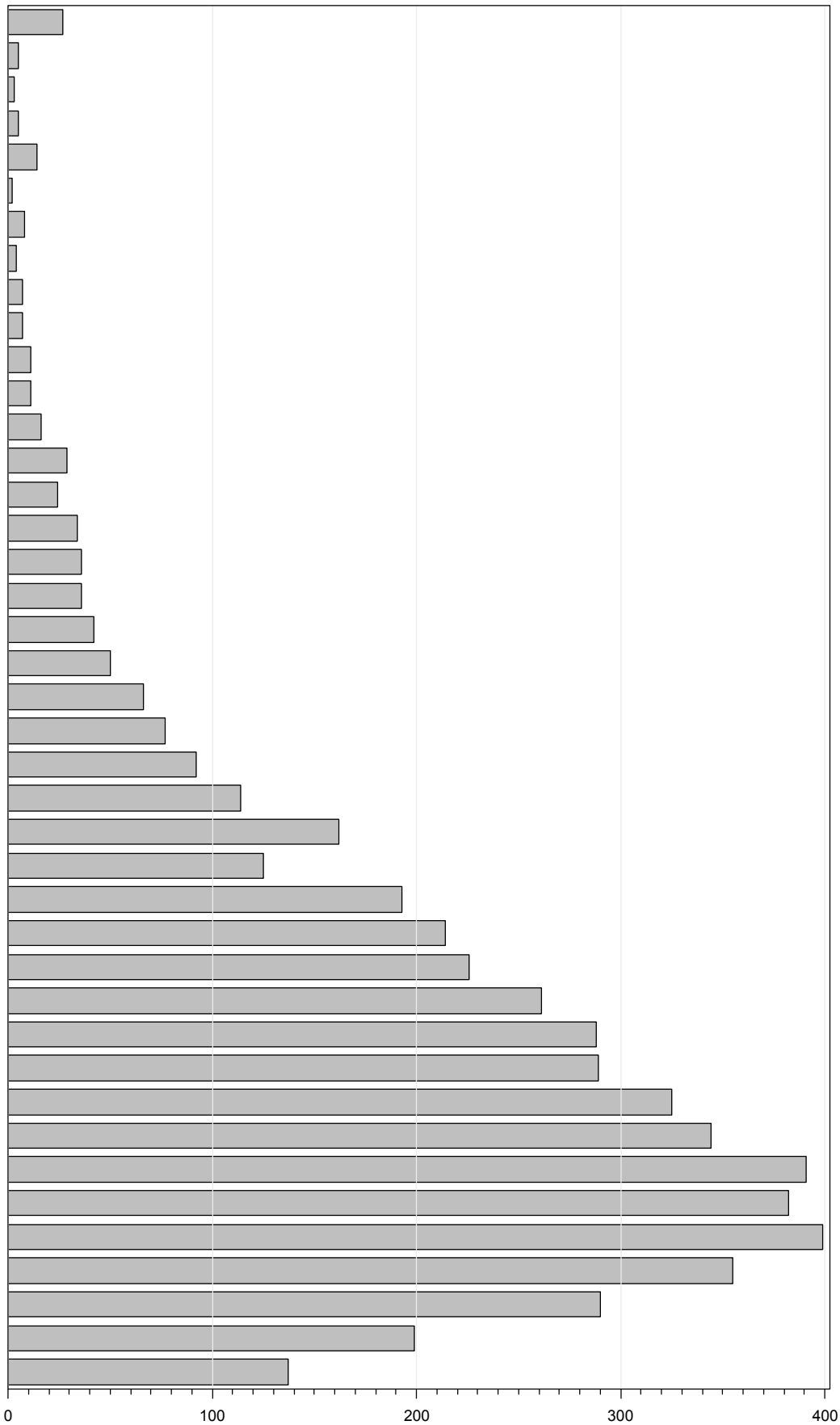
STAAR ALTERNATE 2 SPRING 2016
GRADE 8 MATHEMATICS
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	24	24	0.55	0.55
136	3	27	0.07	0.62
165	5	32	0.12	0.74
182	7	39	0.16	0.90
194	6	45	0.14	1.04
203	7	52	0.16	1.20
212	6	58	0.14	1.34
219	4	62	0.09	1.43
225	9	71	0.21	1.64
231	6	77	0.14	1.78
237	15	92	0.35	2.12
242	13	105	0.30	2.42
247	16	121	0.37	2.79
252	13	134	0.30	3.09
256	15	149	0.35	3.43
261	15	164	0.35	3.78
265	33	197	0.76	4.54
270	25	222	0.58	5.12
274	42	264	0.97	6.09
278	47	311	1.08	7.17
283	43	354	0.99	8.16
287	70	424	1.61	9.77
291	73	497	1.68	11.46
296	91	588	2.10	13.55
300	93	681	2.14	15.70
305	130	811	3.00	18.70
309	174	985	4.01	22.71
314	190	1175	4.38	27.09
319	218	1393	5.03	32.11
324	233	1626	5.37	37.48
330	252	1878	5.81	43.29
335	264	2142	6.09	49.38
342	300	2442	6.92	56.29
348	302	2744	6.96	63.25
356	298	3042	6.87	70.12
365	307	3349	7.08	77.20
375	283	3632	6.52	83.73
388	243	3875	5.60	89.33
406	198	4073	4.56	93.89
436	158	4231	3.64	97.53
490	107	4338	2.47	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

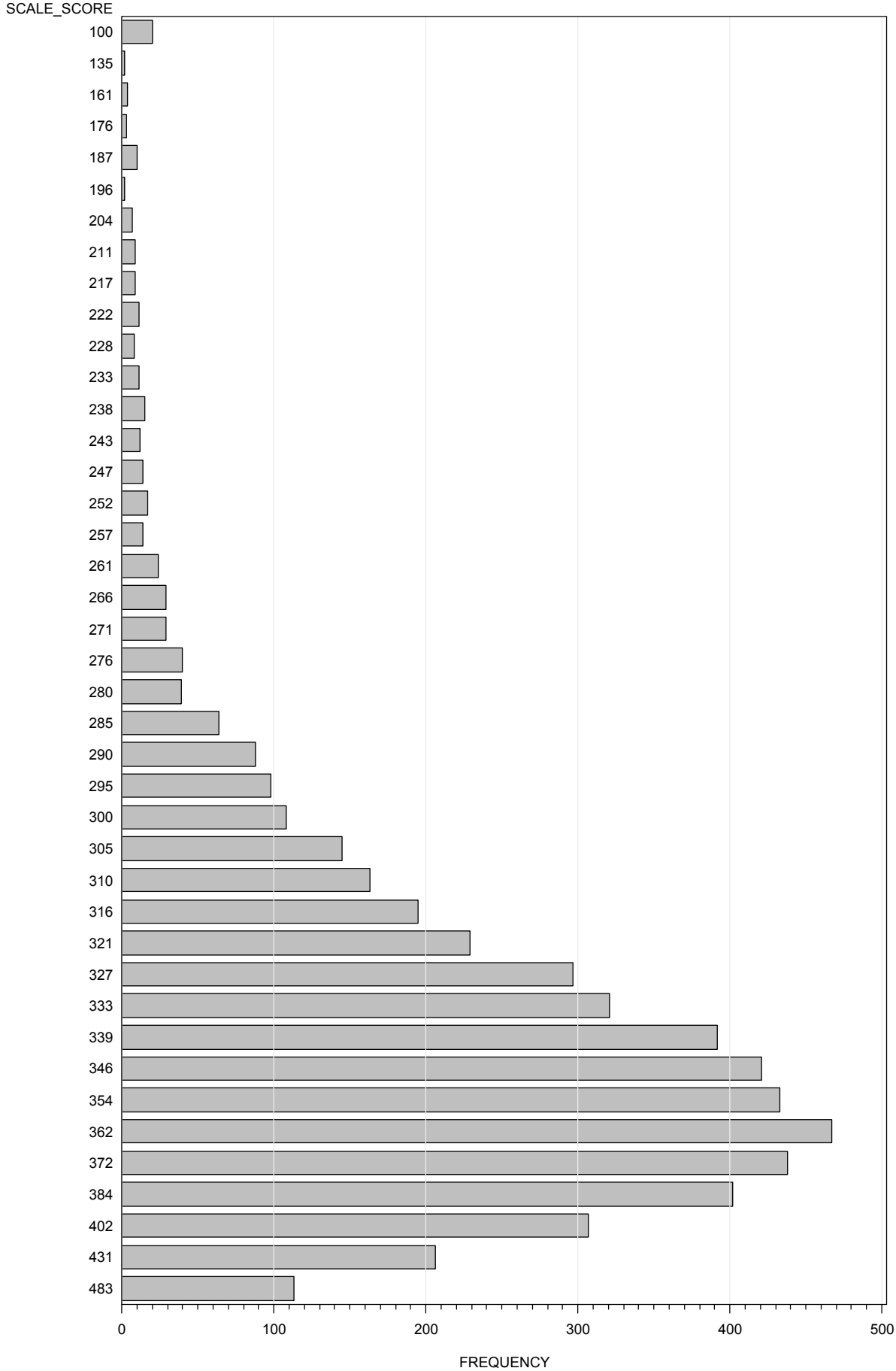
STAAR ALTERNATE 2 SPRING 2016
GRADE 3 READING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	27	27	0.51	0.51
148	5	32	0.09	0.60
174	3	35	0.06	0.66
189	5	40	0.09	0.75
200	14	54	0.26	1.02
209	2	56	0.04	1.06
216	8	64	0.15	1.21
223	4	68	0.08	1.28
229	7	75	0.13	1.42
234	7	82	0.13	1.55
239	11	93	0.21	1.75
244	11	104	0.21	1.96
249	16	120	0.30	2.26
253	29	149	0.55	2.81
258	24	173	0.45	3.26
262	34	207	0.64	3.91
266	36	243	0.68	4.58
270	36	279	0.68	5.26
275	42	321	0.79	6.06
279	50	371	0.94	7.00
283	66	437	1.25	8.25
287	77	514	1.45	9.70
291	92	606	1.74	11.43
296	114	720	2.15	13.58
300	162	882	3.06	16.64
304	125	1007	2.36	19.00
309	193	1200	3.64	22.64
313	214	1414	4.04	26.68
318	226	1640	4.26	30.94
323	261	1901	4.92	35.87
328	288	2189	5.43	41.30
333	289	2478	5.45	46.75
339	325	2803	6.13	52.89
345	344	3147	6.49	59.38
352	391	3538	7.38	66.75
360	382	3920	7.21	73.96
369	399	4319	7.53	81.49
381	355	4674	6.70	88.19
397	290	4964	5.47	93.66
425	199	5163	3.75	97.42
475	137	5300	2.58	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

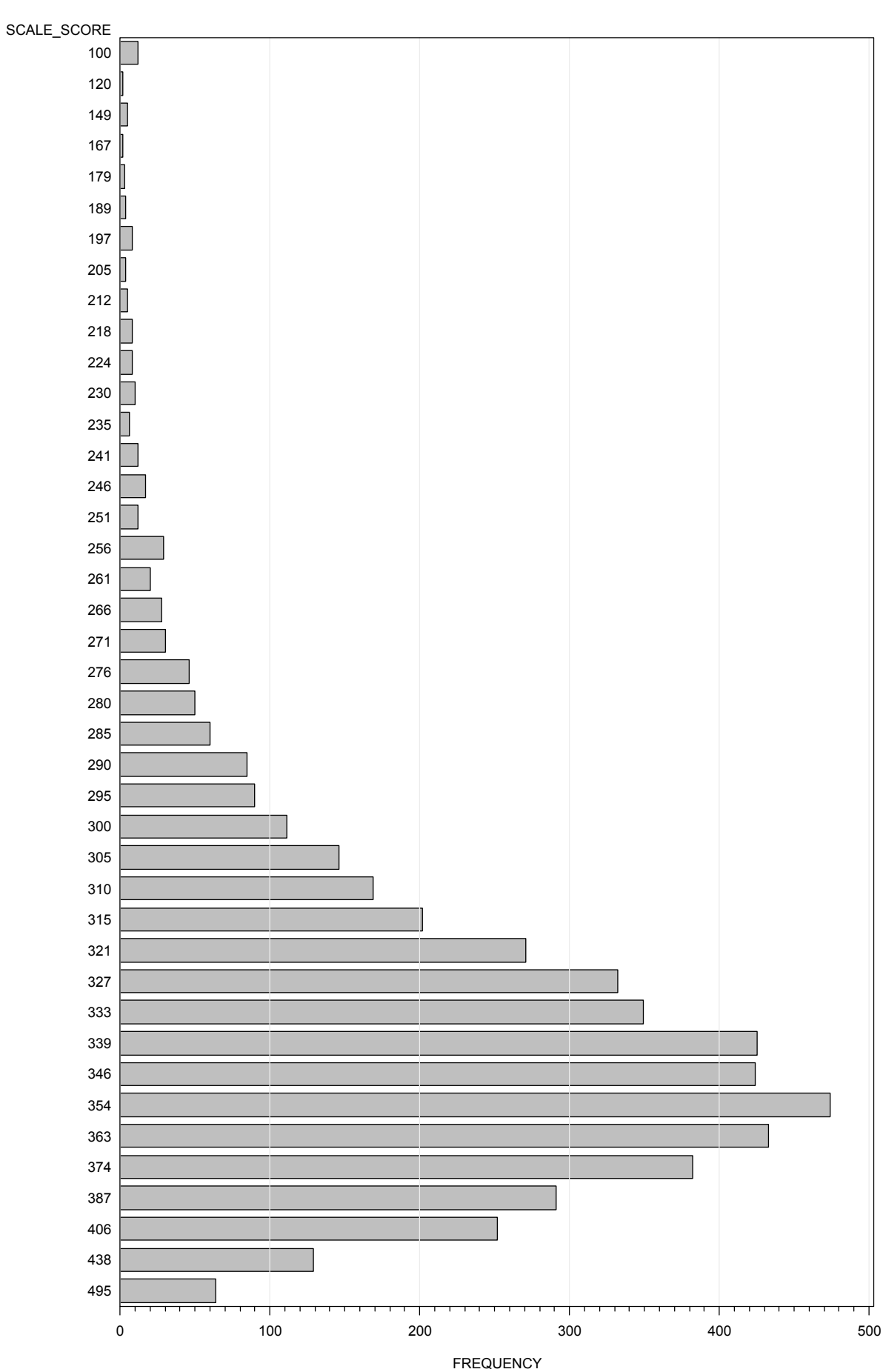
STAAR ALTERNATE 2 SPRING 2016
GRADE 4 READING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	20	20	0.38	0.38
135	2	22	0.04	0.42
161	4	26	0.08	0.50
176	3	29	0.06	0.56
187	10	39	0.19	0.75
196	2	41	0.04	0.79
204	7	48	0.13	0.92
211	9	57	0.17	1.09
217	9	66	0.17	1.27
222	11	77	0.21	1.48
228	8	85	0.15	1.63
233	11	96	0.21	1.84
238	15	111	0.29	2.13
243	12	123	0.23	2.36
247	14	137	0.27	2.63
252	17	154	0.33	2.95
257	14	168	0.27	3.22
261	24	192	0.46	3.68
266	29	221	0.56	4.24
271	29	250	0.56	4.79
276	40	290	0.77	5.56
280	39	329	0.75	6.31
285	64	393	1.23	7.53
290	88	481	1.69	9.22
295	98	579	1.88	11.10
300	108	687	2.07	13.17
305	145	832	2.78	15.95
310	163	995	3.13	19.08
316	195	1190	3.74	22.81
321	229	1419	4.39	27.20
327	297	1716	5.69	32.90
333	321	2037	6.15	39.05
339	392	2429	7.52	46.57
346	421	2850	8.07	54.64
354	433	3283	8.30	62.94
362	467	3750	8.95	71.89
372	438	4188	8.40	80.29
384	402	4590	7.71	88.00
402	307	4897	5.89	93.88
431	206	5103	3.95	97.83
483	113	5216	2.17	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

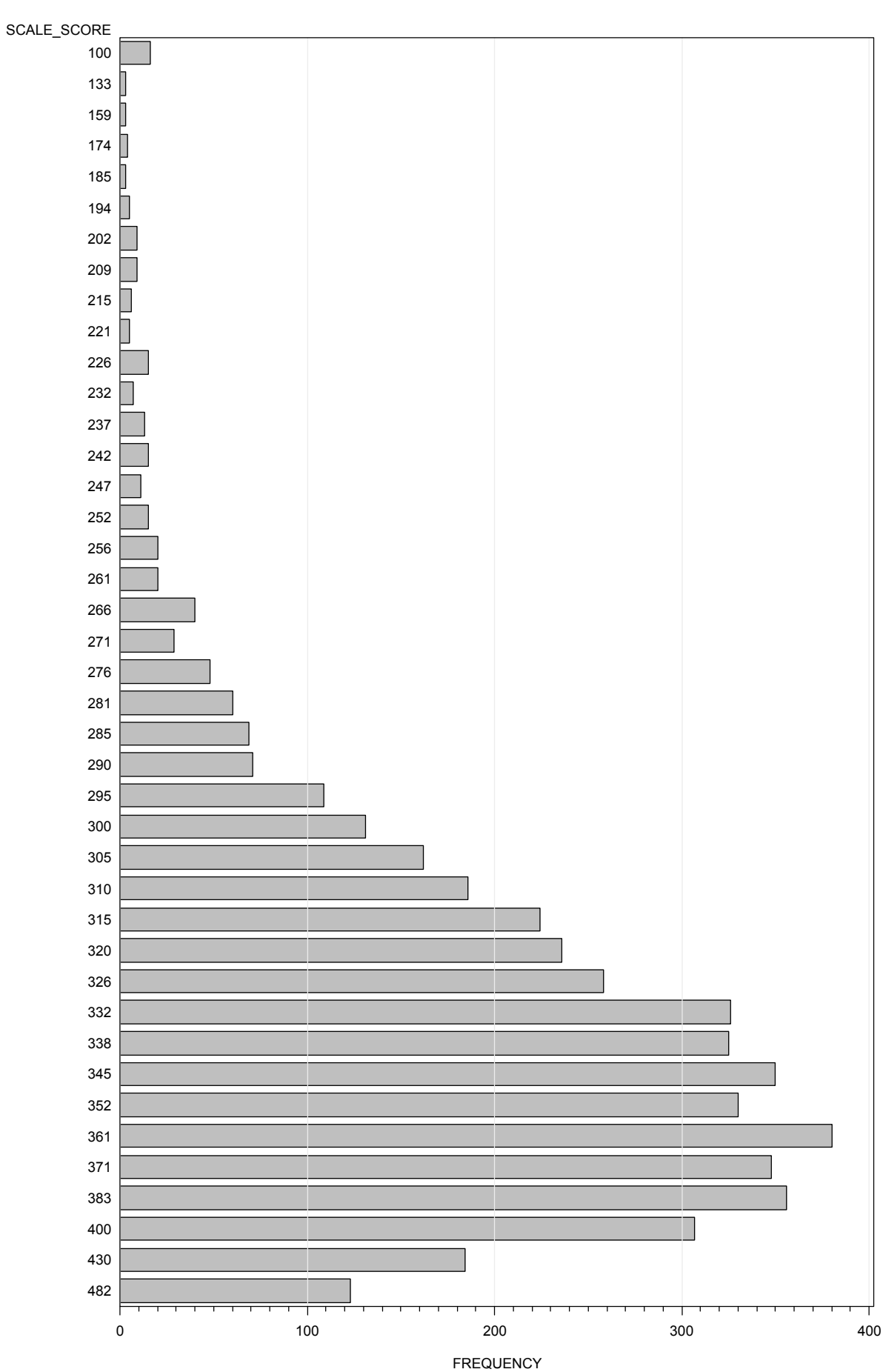
STAAR ALTERNATE 2 SPRING 2016
GRADE 5 READING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	12	12	0.24	0.24
120	2	14	0.04	0.28
149	5	19	0.10	0.38
167	2	21	0.04	0.42
179	3	24	0.06	0.48
189	4	28	0.08	0.56
197	8	36	0.16	0.72
205	4	40	0.08	0.80
212	5	45	0.10	0.90
218	8	53	0.16	1.06
224	8	61	0.16	1.22
230	10	71	0.20	1.42
235	6	77	0.12	1.54
241	12	89	0.24	1.78
246	17	106	0.34	2.12
251	12	118	0.24	2.36
256	29	147	0.58	2.93
261	20	167	0.40	3.33
266	28	195	0.56	3.89
271	30	225	0.60	4.49
276	46	271	0.92	5.41
280	50	321	1.00	6.41
285	60	381	1.20	7.60
290	85	466	1.70	9.30
295	90	556	1.80	11.10
300	111	667	2.22	13.31
305	146	813	2.91	16.23
310	169	982	3.37	19.60
315	202	1184	4.03	23.63
321	271	1455	5.41	29.04
327	332	1787	6.63	35.67
333	349	2136	6.97	42.63
339	425	2561	8.48	51.12
346	424	2985	8.46	59.58
354	474	3459	9.46	69.04
363	433	3892	8.64	77.68
374	382	4274	7.62	85.31
387	291	4565	5.81	91.12
406	252	4817	5.03	96.15
438	129	4946	2.57	98.72
495	64	5010	1.28	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

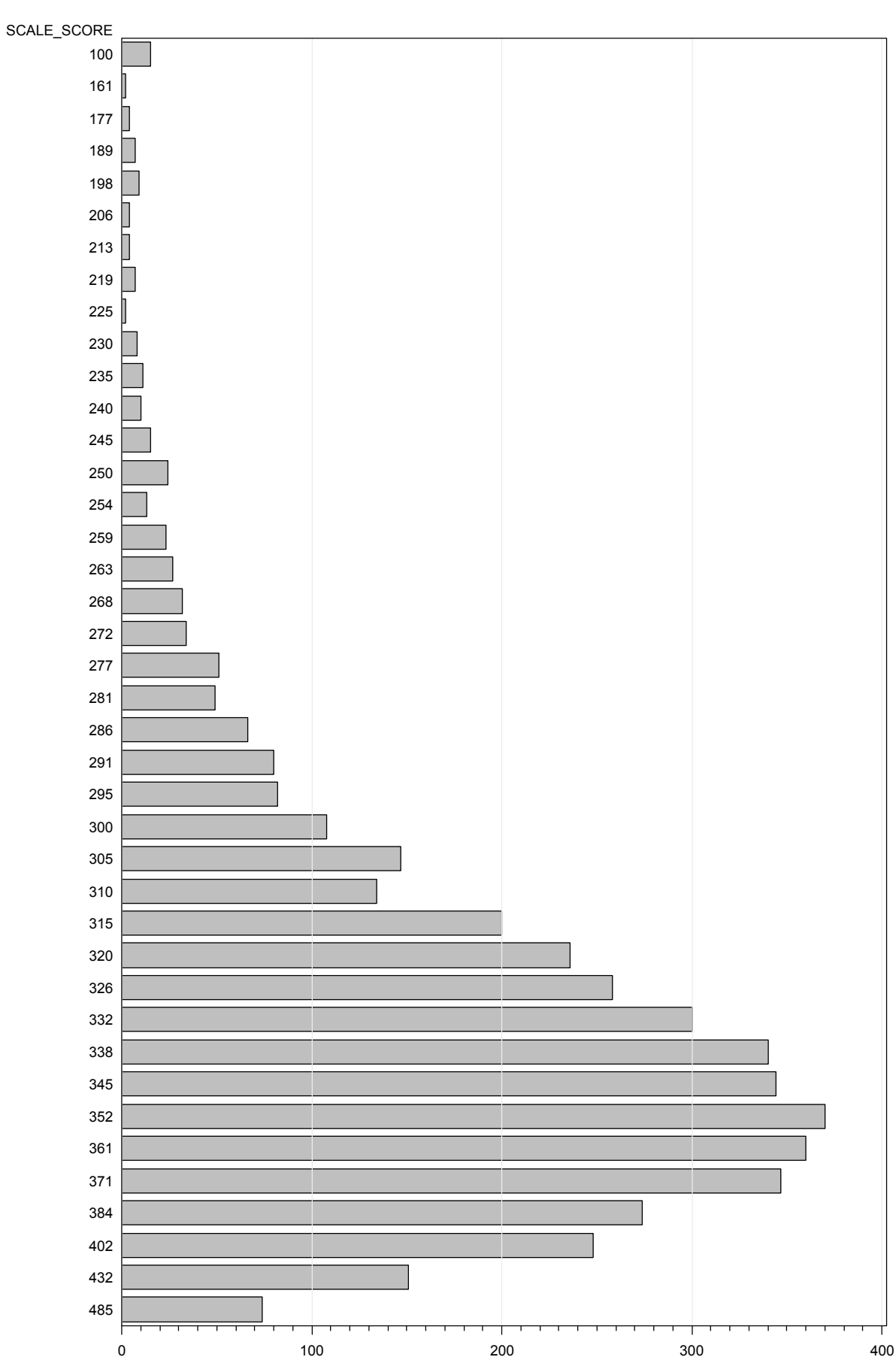
STAAR ALTERNATE 2 SPRING 2016
GRADE 6 READING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	16	16	0.33	0.33
133	3	19	0.06	0.39
159	3	22	0.06	0.46
174	4	26	0.08	0.54
185	3	29	0.06	0.60
194	5	34	0.10	0.70
202	9	43	0.19	0.89
209	9	52	0.19	1.08
215	6	58	0.12	1.20
221	5	63	0.10	1.30
226	15	78	0.31	1.61
232	7	85	0.14	1.76
237	13	98	0.27	2.03
242	15	113	0.31	2.34
247	11	124	0.23	2.57
252	15	139	0.31	2.88
256	20	159	0.41	3.29
261	20	179	0.41	3.71
266	40	219	0.83	4.53
271	29	248	0.60	5.13
276	48	296	0.99	6.13
281	60	356	1.24	7.37
285	69	425	1.43	8.80
290	71	496	1.47	10.27
295	109	605	2.26	12.52
300	131	736	2.71	15.23
305	162	898	3.35	18.59
310	186	1084	3.85	22.44
315	224	1308	4.64	27.08
320	236	1544	4.89	31.96
326	258	1802	5.34	37.30
332	326	2128	6.75	44.05
338	325	2453	6.73	50.78
345	350	2803	7.24	58.02
352	330	3133	6.83	64.85
361	380	3513	7.87	72.72
371	348	3861	7.20	79.92
383	356	4217	7.37	87.29
400	307	4524	6.35	93.65
430	184	4708	3.81	97.45
482	123	4831	2.55	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

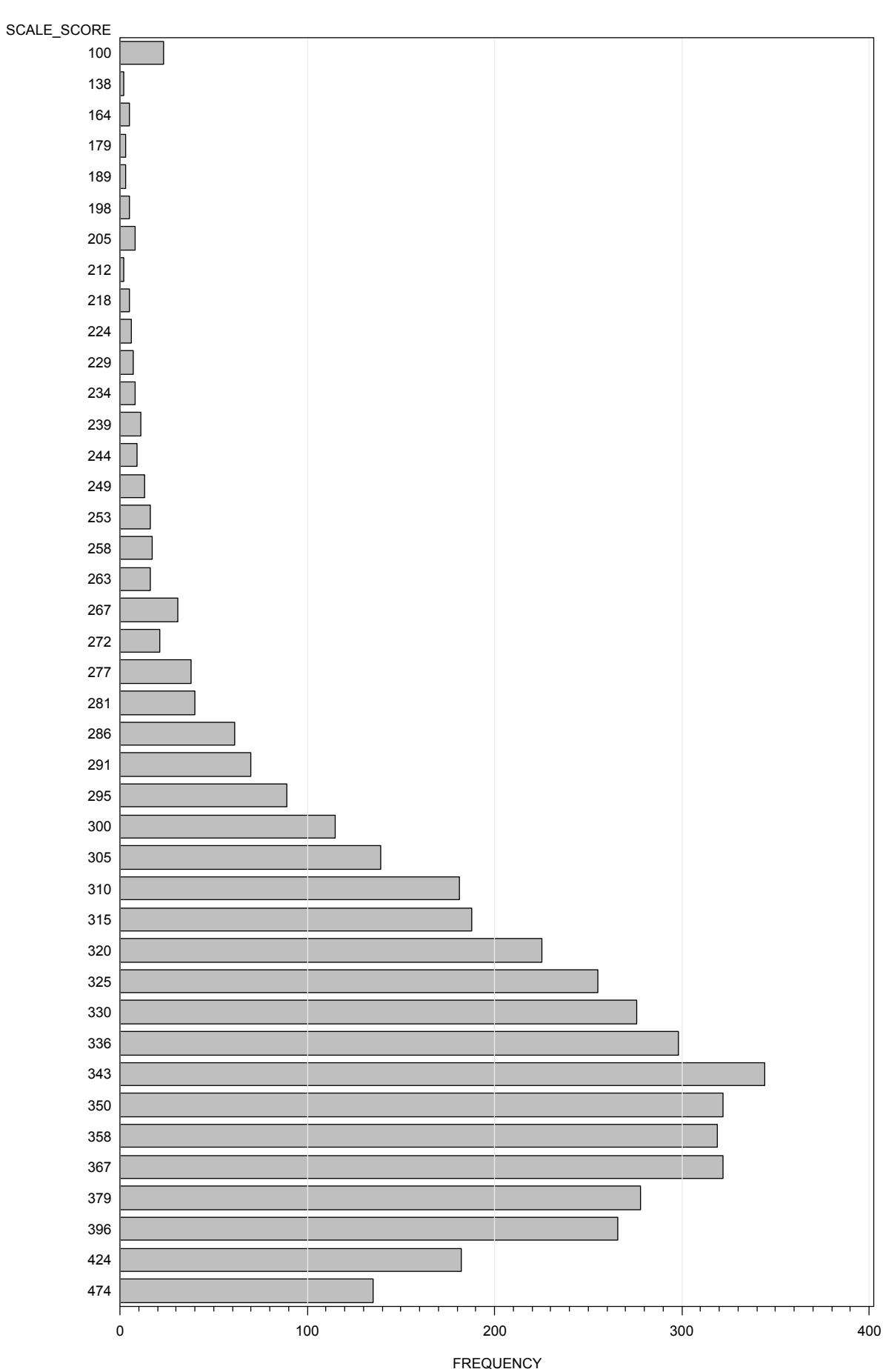
STAAR ALTERNATE 2 SPRING 2016
GRADE 7 READING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	15	15	0.34	0.34
161	2	17	0.04	0.38
177	4	21	0.09	0.47
189	7	28	0.16	0.63
198	9	37	0.20	0.83
206	4	41	0.09	0.92
213	4	45	0.09	1.01
219	7	52	0.16	1.16
225	2	54	0.04	1.21
230	8	62	0.18	1.39
235	11	73	0.25	1.63
240	10	83	0.22	1.86
245	15	98	0.34	2.19
250	24	122	0.54	2.73
254	13	135	0.29	3.02
259	23	158	0.51	3.53
263	27	185	0.60	4.14
268	32	217	0.72	4.85
272	34	251	0.76	5.62
277	51	302	1.14	6.76
281	49	351	1.10	7.85
286	66	417	1.48	9.33
291	80	497	1.79	11.12
295	82	579	1.83	12.95
300	108	687	2.42	15.37
305	147	834	3.29	18.66
310	134	968	3.00	21.66
315	200	1168	4.47	26.13
320	236	1404	5.28	31.41
326	258	1662	5.77	37.18
332	300	1962	6.71	43.89
338	340	2302	7.61	51.50
345	344	2646	7.70	59.19
352	370	3016	8.28	67.47
361	360	3376	8.05	75.53
371	347	3723	7.76	83.29
384	274	3997	6.13	89.42
402	248	4245	5.55	94.97
432	151	4396	3.38	98.34
485	74	4470	1.66	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

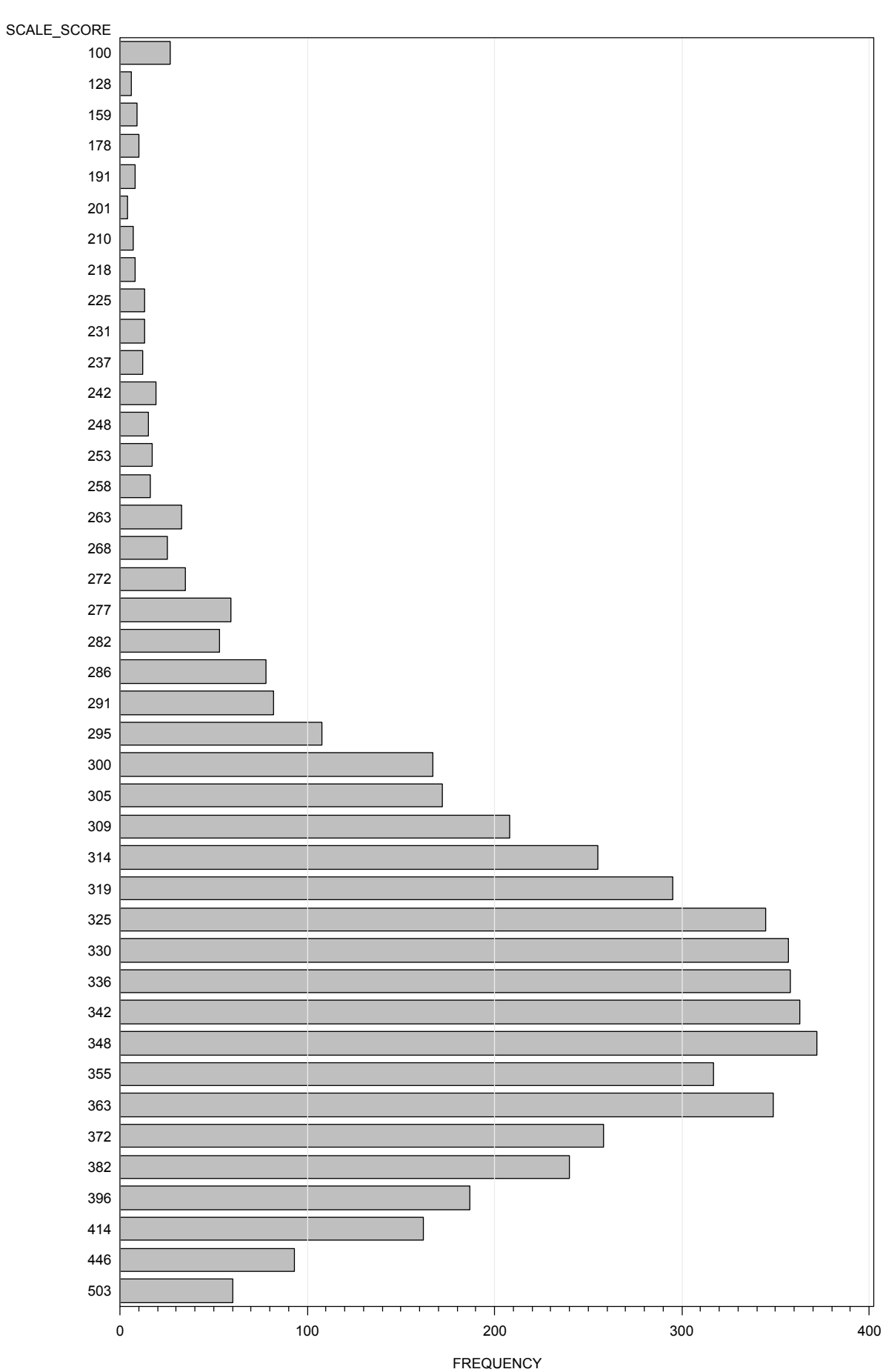
STAAR ALTERNATE 2 SPRING 2016
GRADE 8 READING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	23	23	0.53	0.53
138	2	25	0.05	0.57
164	5	30	0.11	0.69
179	3	33	0.07	0.76
189	3	36	0.07	0.83
198	5	41	0.11	0.94
205	8	49	0.18	1.13
212	2	51	0.05	1.17
218	5	56	0.11	1.29
224	6	62	0.14	1.42
229	7	69	0.16	1.58
234	8	77	0.18	1.77
239	11	88	0.25	2.02
244	9	97	0.21	2.23
249	13	110	0.30	2.53
253	16	126	0.37	2.89
258	17	143	0.39	3.28
263	16	159	0.37	3.65
267	31	190	0.71	4.36
272	21	211	0.48	4.85
277	38	249	0.87	5.72
281	40	289	0.92	6.64
286	61	350	1.40	8.04
291	70	420	1.61	9.65
295	89	509	2.04	11.69
300	115	624	2.64	14.33
305	139	763	3.19	17.52
310	181	944	4.16	21.68
315	188	1132	4.32	26.00
320	225	1357	5.17	31.17
325	255	1612	5.86	37.02
330	276	1888	6.34	43.36
336	298	2186	6.84	50.21
343	344	2530	7.90	58.11
350	322	2852	7.40	65.50
358	319	3171	7.33	72.83
367	322	3493	7.40	80.23
379	278	3771	6.38	86.61
396	266	4037	6.11	92.72
424	182	4219	4.18	96.90
474	135	4354	3.10	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

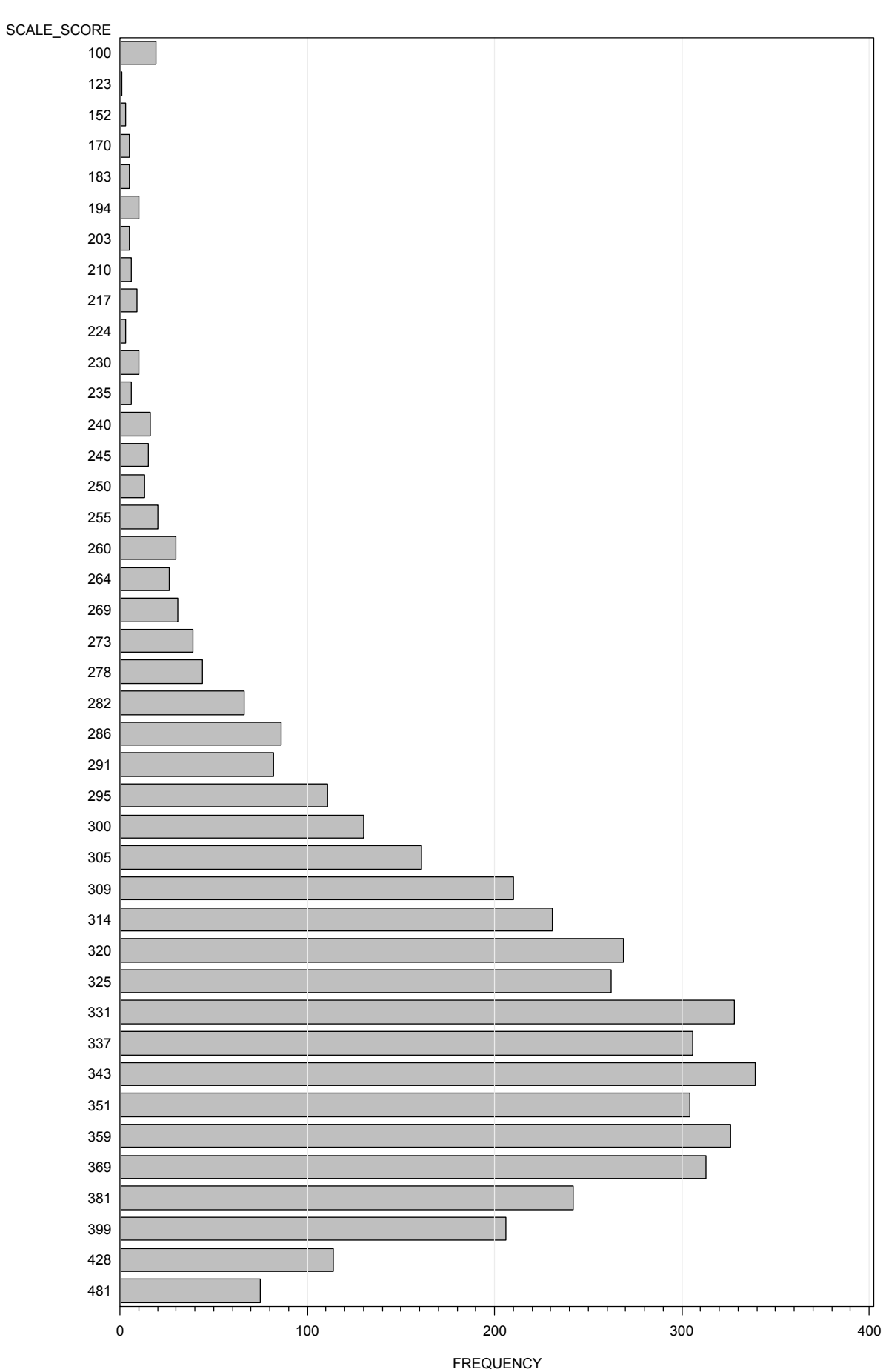
STAAR ALTERNATE 2 SPRING 2016
GRADE 4 WRITING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	27	27	0.52	0.52
128	6	33	0.12	0.63
159	9	42	0.17	0.81
178	10	52	0.19	1.00
191	8	60	0.15	1.15
201	4	64	0.08	1.23
210	7	71	0.13	1.36
218	8	79	0.15	1.51
225	13	92	0.25	1.76
231	13	105	0.25	2.01
237	12	117	0.23	2.24
242	19	136	0.36	2.61
248	15	151	0.29	2.90
253	17	168	0.33	3.22
258	16	184	0.31	3.53
263	33	217	0.63	4.16
268	25	242	0.48	4.64
272	35	277	0.67	5.31
277	59	336	1.13	6.44
282	53	389	1.02	7.46
286	78	467	1.50	8.95
291	82	549	1.57	10.53
295	108	657	2.07	12.60
300	167	824	3.20	15.80
305	172	996	3.30	19.10
309	208	1204	3.99	23.09
314	255	1459	4.89	27.98
319	295	1754	5.66	33.63
325	345	2099	6.62	40.25
330	357	2456	6.85	47.09
336	358	2814	6.86	53.96
342	363	3177	6.96	60.92
348	372	3549	7.13	68.05
355	317	3866	6.08	74.13
363	349	4215	6.69	80.82
372	258	4473	4.95	85.77
382	240	4713	4.60	90.37
396	187	4900	3.59	93.96
414	162	5062	3.11	97.07
446	93	5155	1.78	98.85
503	60	5215	1.15	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

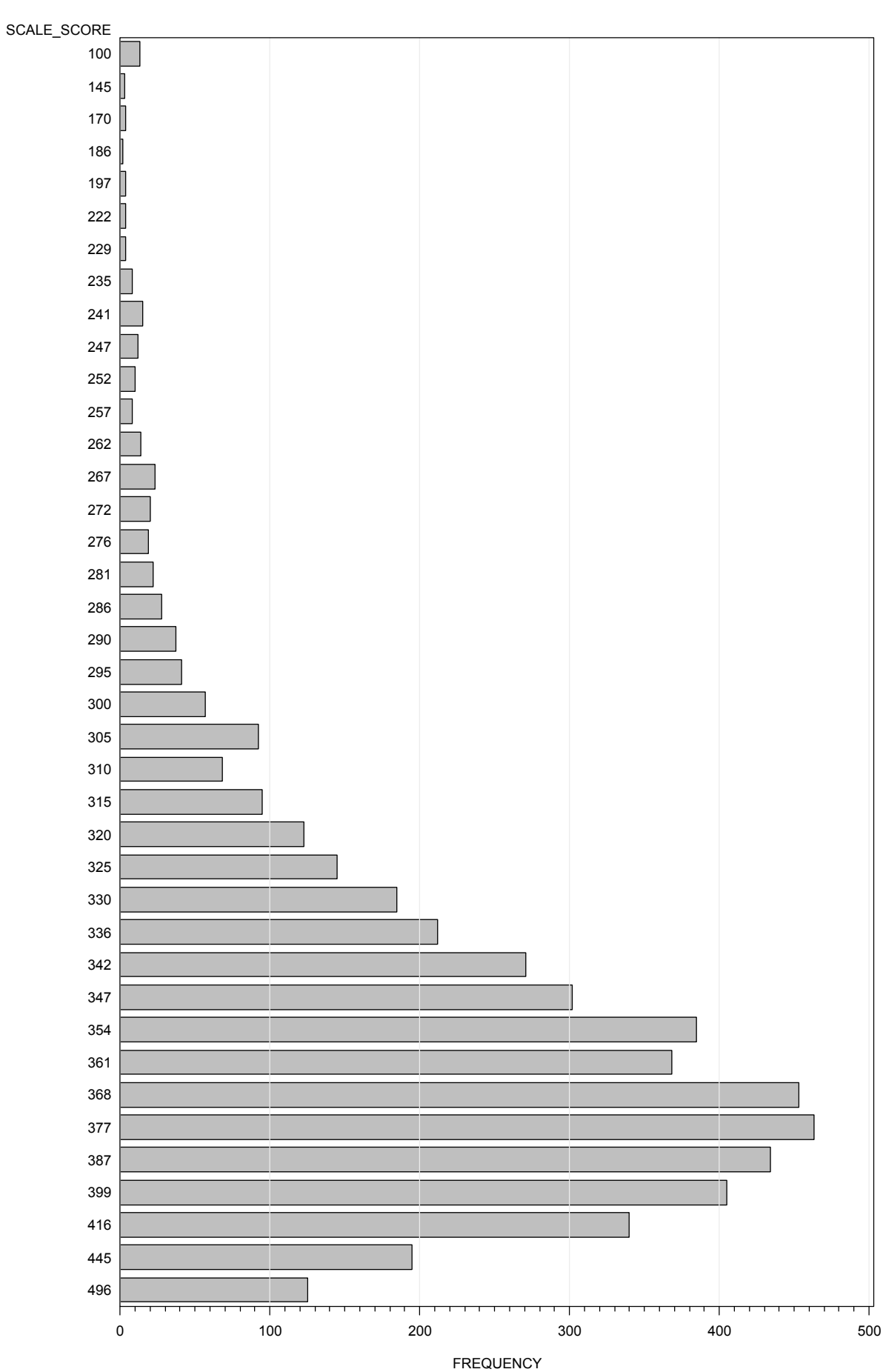
STAAR ALTERNATE 2 SPRING 2016
GRADE 7 WRITING
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	19	19	0.42	0.42
123	1	20	0.02	0.45
152	3	23	0.07	0.51
170	5	28	0.11	0.63
183	5	33	0.11	0.74
194	10	43	0.22	0.96
203	5	48	0.11	1.07
210	6	54	0.13	1.21
217	9	63	0.20	1.41
224	3	66	0.07	1.47
230	10	76	0.22	1.70
235	6	82	0.13	1.83
240	16	98	0.36	2.19
245	15	113	0.34	2.52
250	13	126	0.29	2.81
255	20	146	0.45	3.26
260	30	176	0.67	3.93
264	26	202	0.58	4.51
269	31	233	0.69	5.20
273	39	272	0.87	6.08
278	44	316	0.98	7.06
282	66	382	1.47	8.53
286	86	468	1.92	10.45
291	82	550	1.83	12.29
295	111	661	2.48	14.76
300	130	791	2.90	17.67
305	161	952	3.60	21.26
309	210	1162	4.69	25.95
314	231	1393	5.16	31.11
320	269	1662	6.01	37.12
325	262	1924	5.85	42.98
331	328	2252	7.33	50.30
337	306	2558	6.83	57.14
343	339	2897	7.57	64.71
351	304	3201	6.79	71.50
359	326	3527	7.28	78.78
369	313	3840	6.99	85.77
381	242	4082	5.41	91.18
399	206	4288	4.60	95.78
428	114	4402	2.55	98.32
481	75	4477	1.68	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

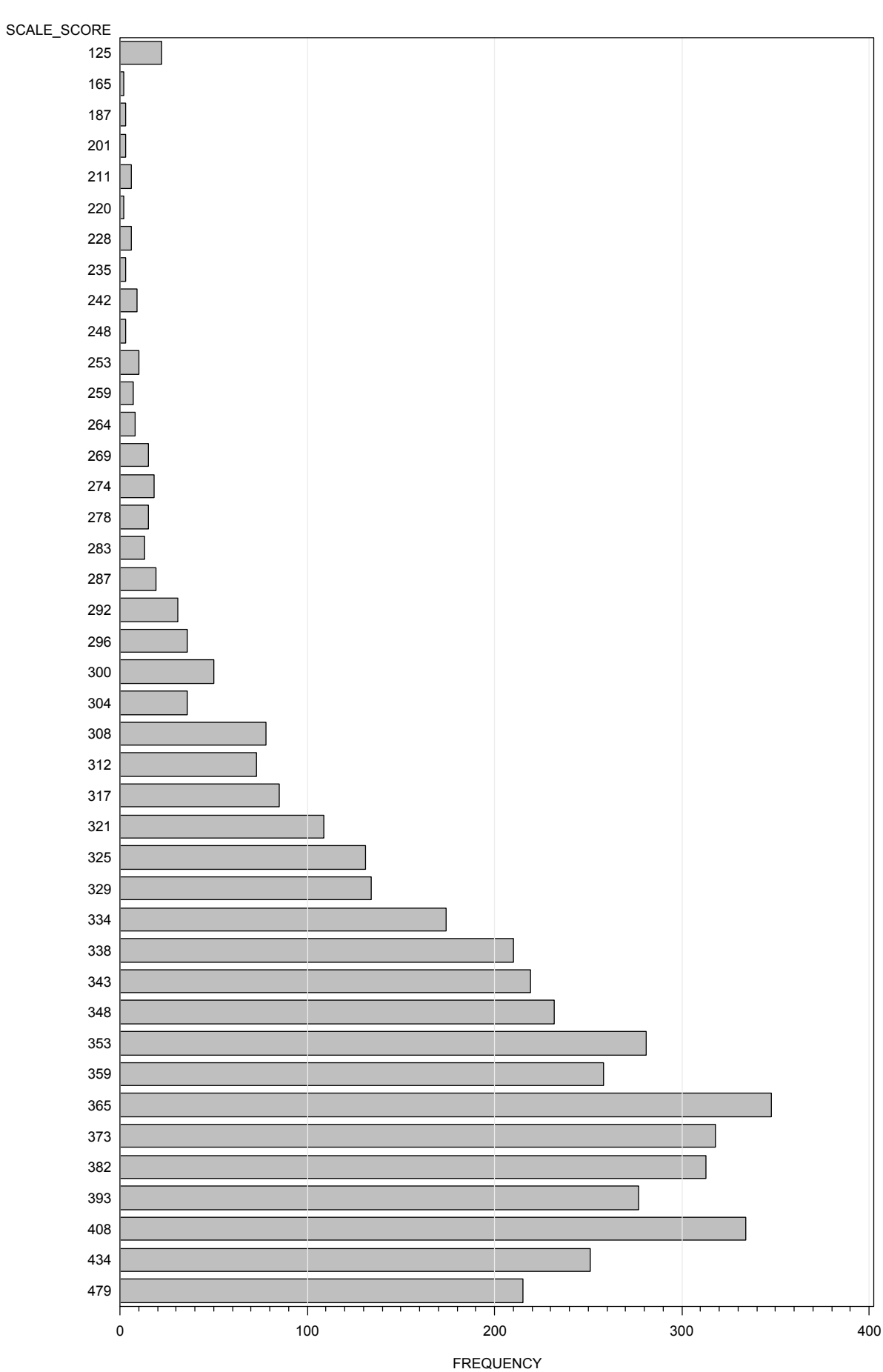
STAAR ALTERNATE 2 SPRING 2016
GRADE 5 SCIENCE
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	13	13	0.26	0.26
145	3	16	0.06	0.32
170	4	20	0.08	0.40
186	2	22	0.04	0.44
197	4	26	0.08	0.52
222	4	30	0.08	0.60
229	4	34	0.08	0.68
235	8	42	0.16	0.84
241	15	57	0.30	1.14
247	12	69	0.24	1.38
252	10	79	0.20	1.58
257	8	87	0.16	1.74
262	14	101	0.28	2.02
267	23	124	0.46	2.48
272	20	144	0.40	2.87
276	19	163	0.38	3.25
281	22	185	0.44	3.69
286	28	213	0.56	4.25
290	37	250	0.74	4.99
295	41	291	0.82	5.81
300	57	348	1.14	6.95
305	92	440	1.84	8.78
310	68	508	1.36	10.14
315	95	603	1.90	12.04
320	123	726	2.46	14.49
325	145	871	2.89	17.39
330	185	1056	3.69	21.08
336	212	1268	4.23	25.31
342	271	1539	5.41	30.72
347	302	1841	6.03	36.75
354	385	2226	7.69	44.44
361	368	2594	7.35	51.79
368	453	3047	9.04	60.83
377	463	3510	9.24	70.07
387	434	3944	8.66	78.74
399	405	4349	8.09	86.82
416	340	4689	6.79	93.61
445	195	4884	3.89	97.50
496	125	5009	2.50	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

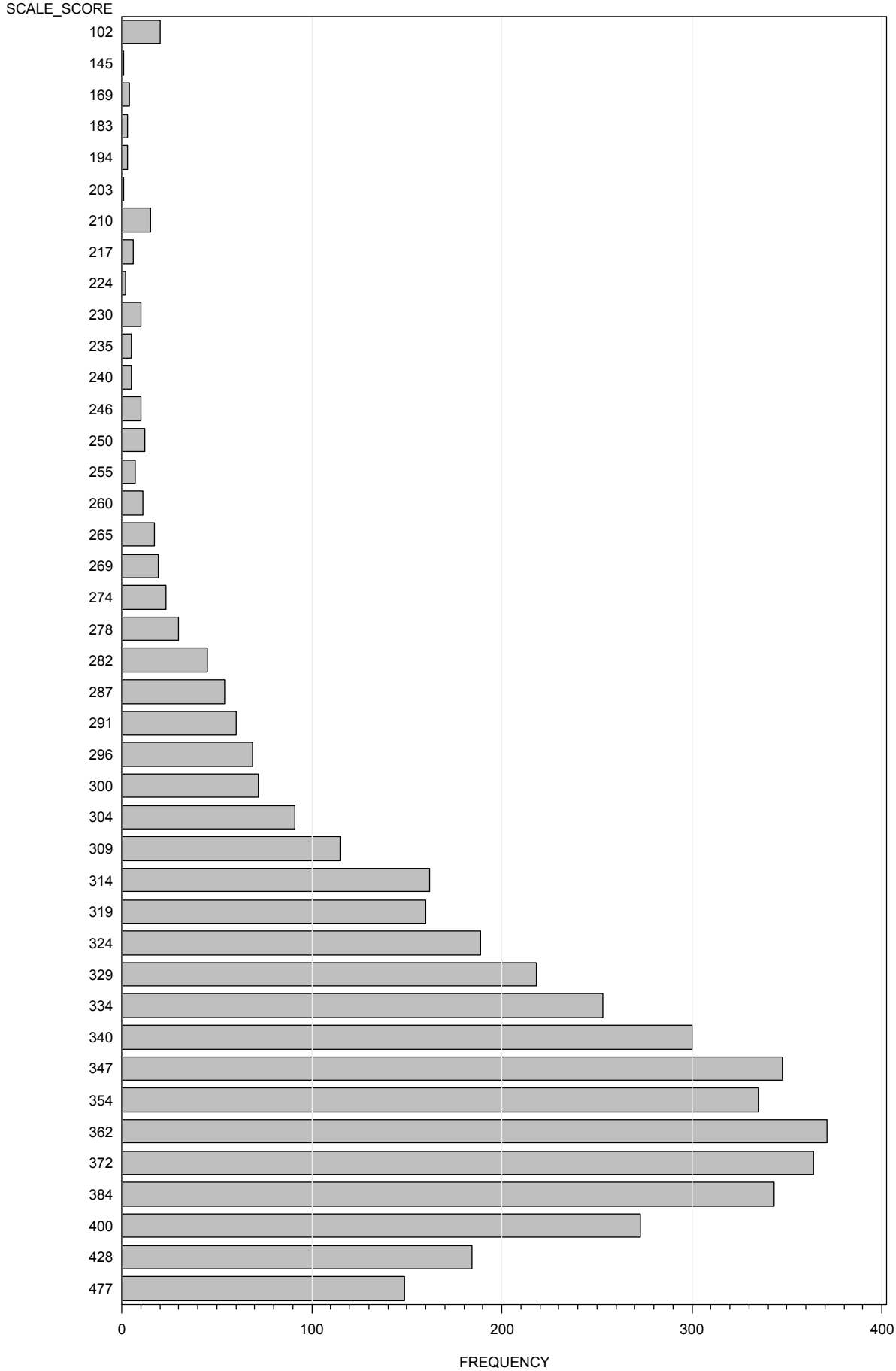
STAAR ALTERNATE 2 SPRING 2016
GRADE 8 SCIENCE
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
125	22	22	0.50	0.50
165	2	24	0.05	0.55
187	3	27	0.07	0.62
201	3	30	0.07	0.69
211	6	36	0.14	0.83
220	2	38	0.05	0.87
228	6	44	0.14	1.01
235	3	47	0.07	1.08
242	9	56	0.21	1.29
248	3	59	0.07	1.35
253	10	69	0.23	1.58
259	7	76	0.16	1.74
264	8	84	0.18	1.93
269	15	99	0.34	2.27
274	18	117	0.41	2.69
278	15	132	0.34	3.03
283	13	145	0.30	3.33
287	19	164	0.44	3.76
292	31	195	0.71	4.48
296	36	231	0.83	5.30
300	50	281	1.15	6.45
304	36	317	0.83	7.28
308	78	395	1.79	9.07
312	73	468	1.68	10.74
317	85	553	1.95	12.69
321	109	662	2.50	15.19
325	131	793	3.01	18.20
329	134	927	3.08	21.28
334	174	1101	3.99	25.27
338	210	1311	4.82	30.09
343	219	1530	5.03	35.12
348	232	1762	5.32	40.44
353	281	2043	6.45	46.89
359	258	2301	5.92	52.81
365	348	2649	7.99	60.80
373	318	2967	7.30	68.10
382	313	3280	7.18	75.28
393	277	3557	6.36	81.64
408	334	3891	7.67	89.30
434	251	4142	5.76	95.07
479	215	4357	4.93	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

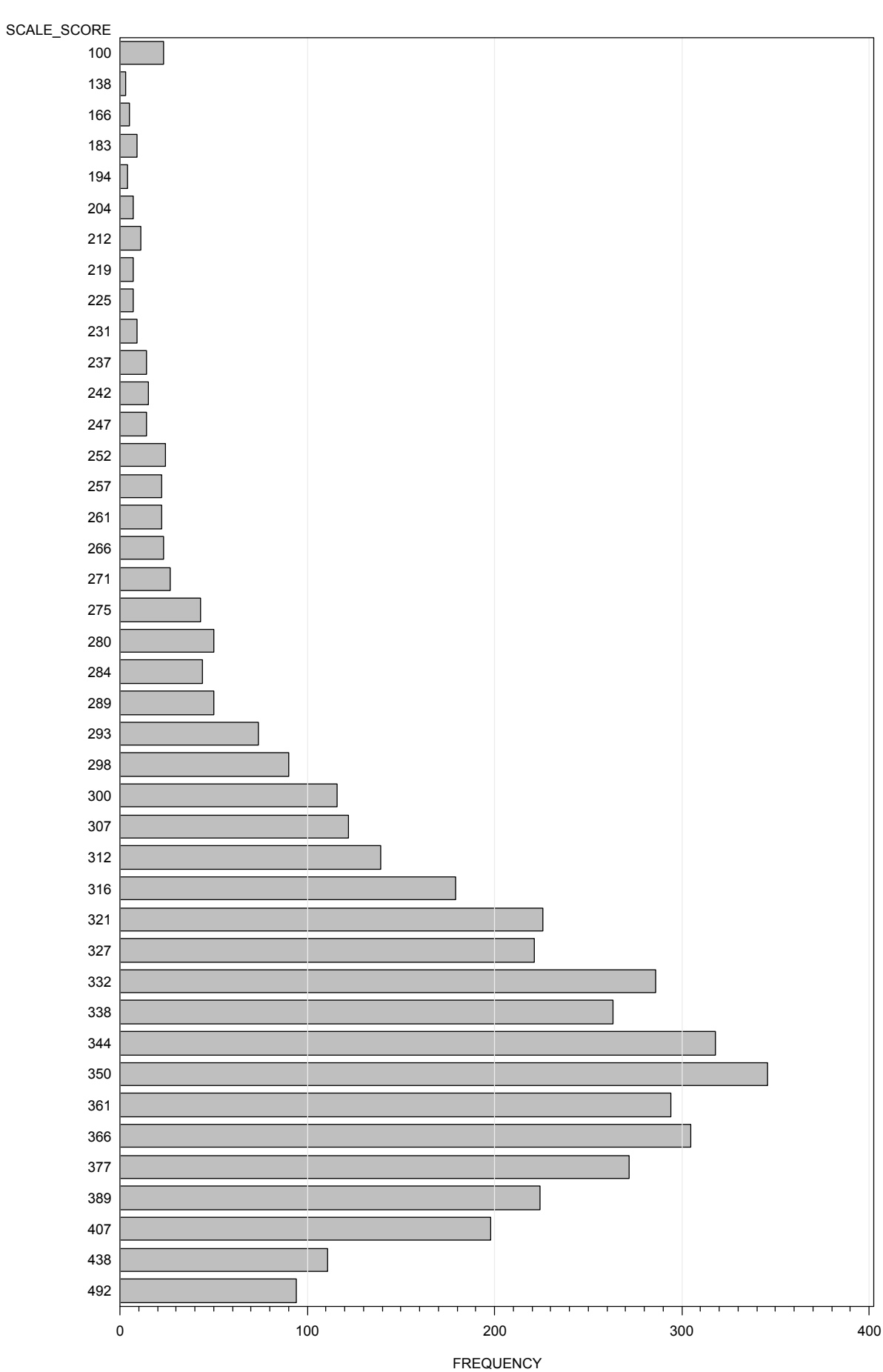
STAAR ALTERNATE 2 SPRING 2016
GRADE 8 SOCIAL STUDIES
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
102	20	20	0.46	0.46
145	1	21	0.02	0.48
169	4	25	0.09	0.57
183	3	28	0.07	0.64
194	3	31	0.07	0.71
203	1	32	0.02	0.73
210	15	47	0.34	1.08
217	6	53	0.14	1.22
224	2	55	0.05	1.26
230	10	65	0.23	1.49
235	5	70	0.11	1.61
240	5	75	0.11	1.72
246	10	85	0.23	1.95
250	12	97	0.28	2.23
255	7	104	0.16	2.39
260	11	115	0.25	2.64
265	17	132	0.39	3.03
269	19	151	0.44	3.46
274	23	174	0.53	3.99
278	30	204	0.69	4.68
282	45	249	1.03	5.71
287	54	303	1.24	6.95
291	60	363	1.38	8.33
296	69	432	1.58	9.91
300	72	504	1.65	11.56
304	91	595	2.09	13.65
309	115	710	2.64	16.29
314	162	872	3.72	20.00
319	160	1032	3.67	23.68
324	189	1221	4.34	28.01
329	218	1439	5.00	33.01
334	253	1692	5.80	38.82
340	300	1992	6.88	45.70
347	348	2340	7.98	53.68
354	335	2675	7.69	61.37
362	371	3046	8.51	69.88
372	364	3410	8.35	78.23
384	343	3753	7.87	86.10
400	273	4026	6.26	92.36
428	184	4210	4.22	96.58
477	149	4359	3.42	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

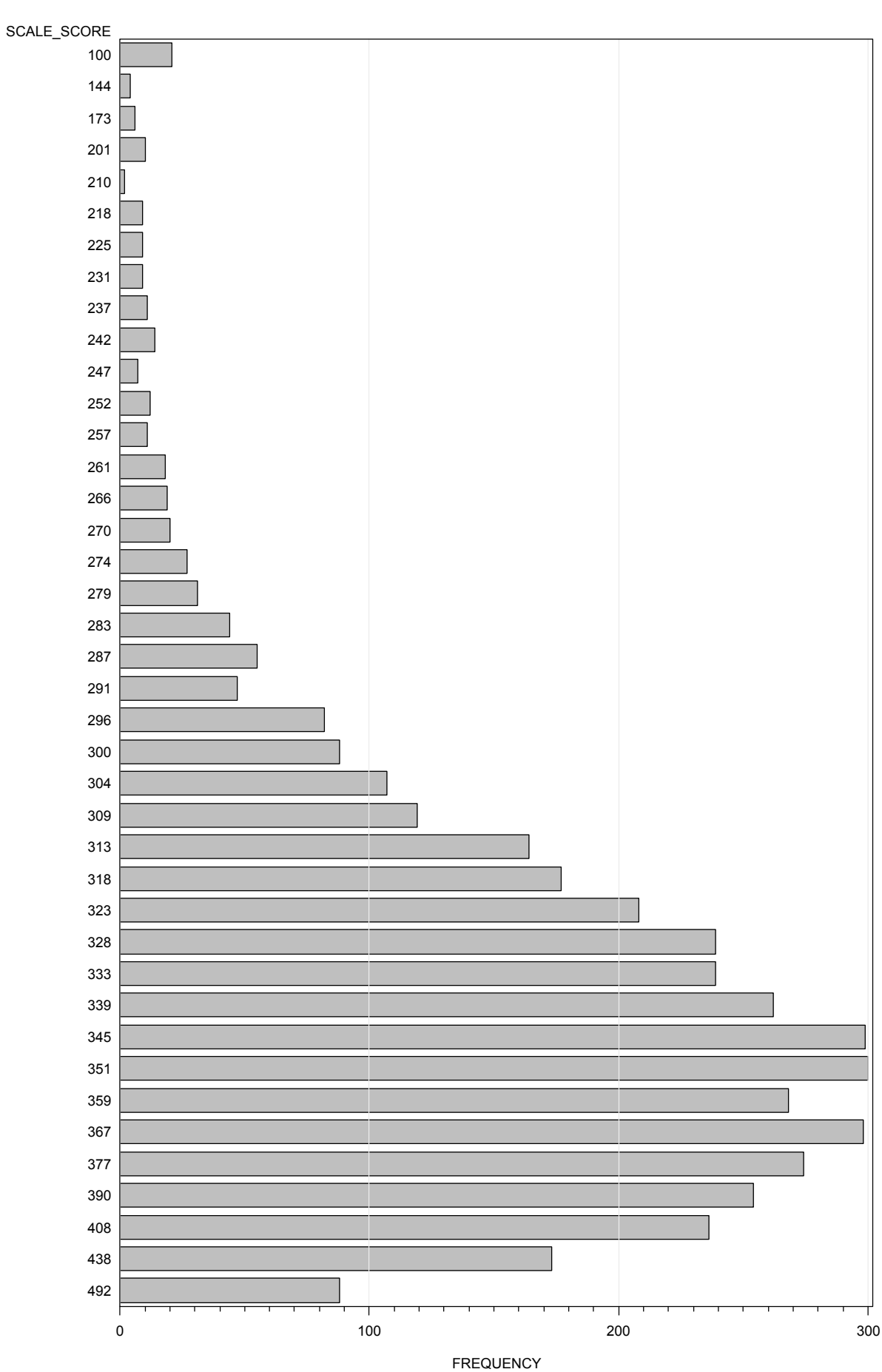
STAAR ALTERNATE 2 EOC SPRING 2016
ALGEBRA I
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	23	23	0.53	0.53
138	3	26	0.07	0.60
166	5	31	0.12	0.72
183	9	40	0.21	0.93
194	4	44	0.09	1.02
204	7	51	0.16	1.18
212	11	62	0.26	1.44
219	7	69	0.16	1.60
225	7	76	0.16	1.76
231	9	85	0.21	1.97
237	14	99	0.32	2.30
242	15	114	0.35	2.64
247	14	128	0.32	2.97
252	24	152	0.56	3.53
257	22	174	0.51	4.04
261	22	196	0.51	4.55
266	23	219	0.53	5.08
271	27	246	0.63	5.71
275	43	289	1.00	6.70
280	50	339	1.16	7.86
284	44	383	1.02	8.88
289	50	433	1.16	10.04
293	74	507	1.72	11.76
298	90	597	2.09	13.85
300	116	713	2.69	16.54
307	122	835	2.83	19.37
312	139	974	3.22	22.59
316	179	1153	4.15	26.75
321	226	1379	5.24	31.99
327	221	1600	5.13	37.11
332	286	1886	6.63	43.75
338	263	2149	6.10	49.85
344	318	2467	7.38	57.23
350	346	2813	8.03	65.25
361	294	3107	6.82	72.07
366	305	3412	7.07	79.15
377	272	3684	6.31	85.46
389	224	3908	5.20	90.65
407	198	4106	4.59	95.24
438	111	4217	2.57	97.82
492	94	4311	2.18	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

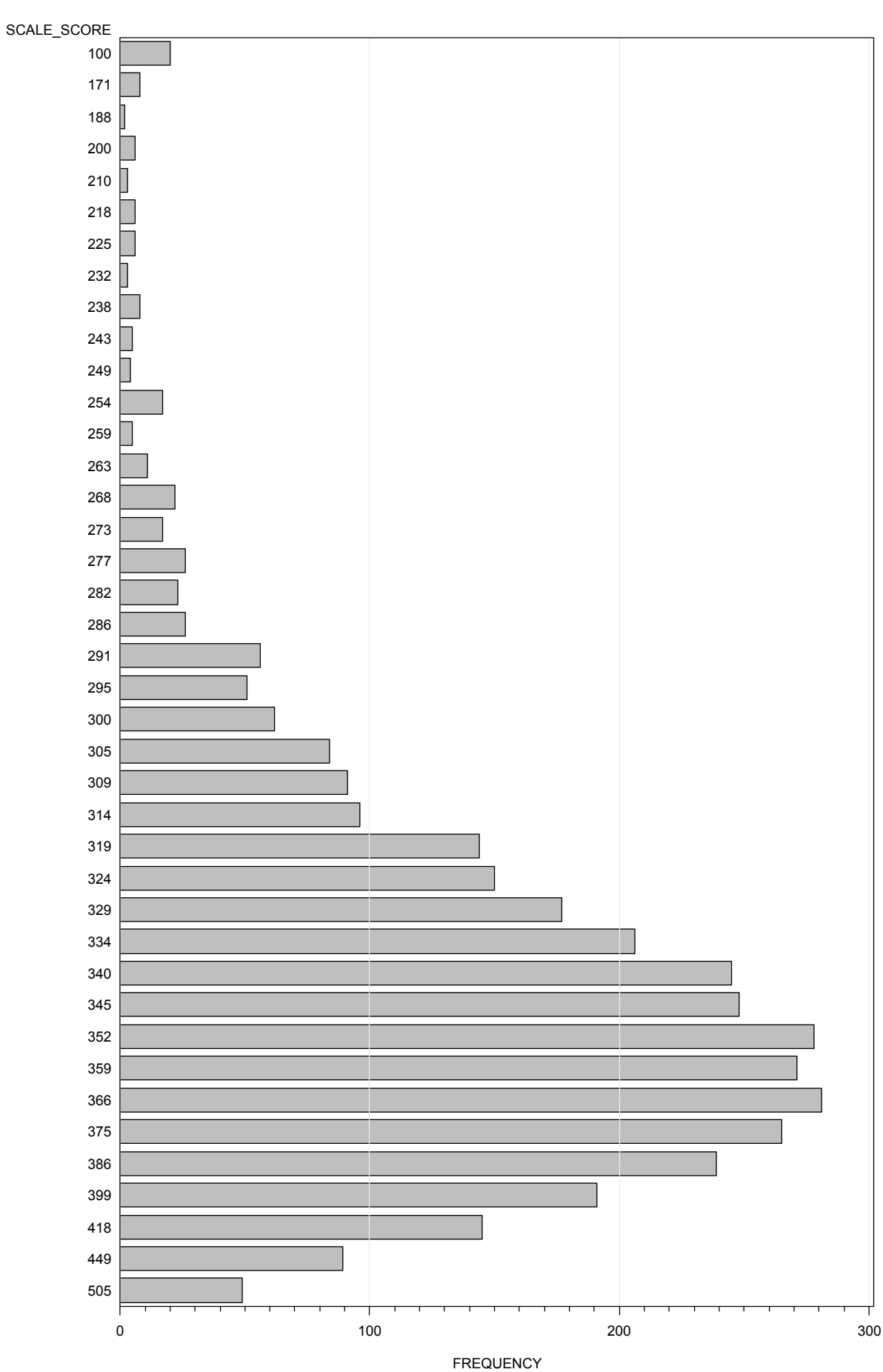
STAAR ALTERNATE 2 EOC SPRING 2016
ENGLISH I
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	21	21	0.49	0.49
144	4	25	0.09	0.59
173	6	31	0.14	0.73
201	10	41	0.23	0.96
210	2	43	0.05	1.01
218	9	52	0.21	1.22
225	9	61	0.21	1.43
231	9	70	0.21	1.64
237	11	81	0.26	1.90
242	14	95	0.33	2.23
247	7	102	0.16	2.39
252	12	114	0.28	2.68
257	11	125	0.26	2.93
261	18	143	0.42	3.36
266	19	162	0.45	3.80
270	20	182	0.47	4.27
274	27	209	0.63	4.90
279	31	240	0.73	5.63
283	44	284	1.03	6.67
287	55	339	1.29	7.96
291	47	386	1.10	9.06
296	82	468	1.92	10.98
300	88	556	2.07	13.05
304	107	663	2.51	15.56
309	119	782	2.79	18.35
313	164	946	3.85	22.20
318	177	1123	4.15	26.36
323	208	1331	4.88	31.24
328	239	1570	5.61	36.85
333	239	1809	5.61	42.45
339	262	2071	6.15	48.60
345	299	2370	7.02	55.62
351	300	2670	7.04	62.66
359	268	2938	6.29	68.95
367	298	3236	6.99	75.94
377	274	3510	6.43	82.38
390	254	3764	5.96	88.34
408	236	4000	5.54	93.87
438	173	4173	4.06	97.93
492	88	4261	2.07	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

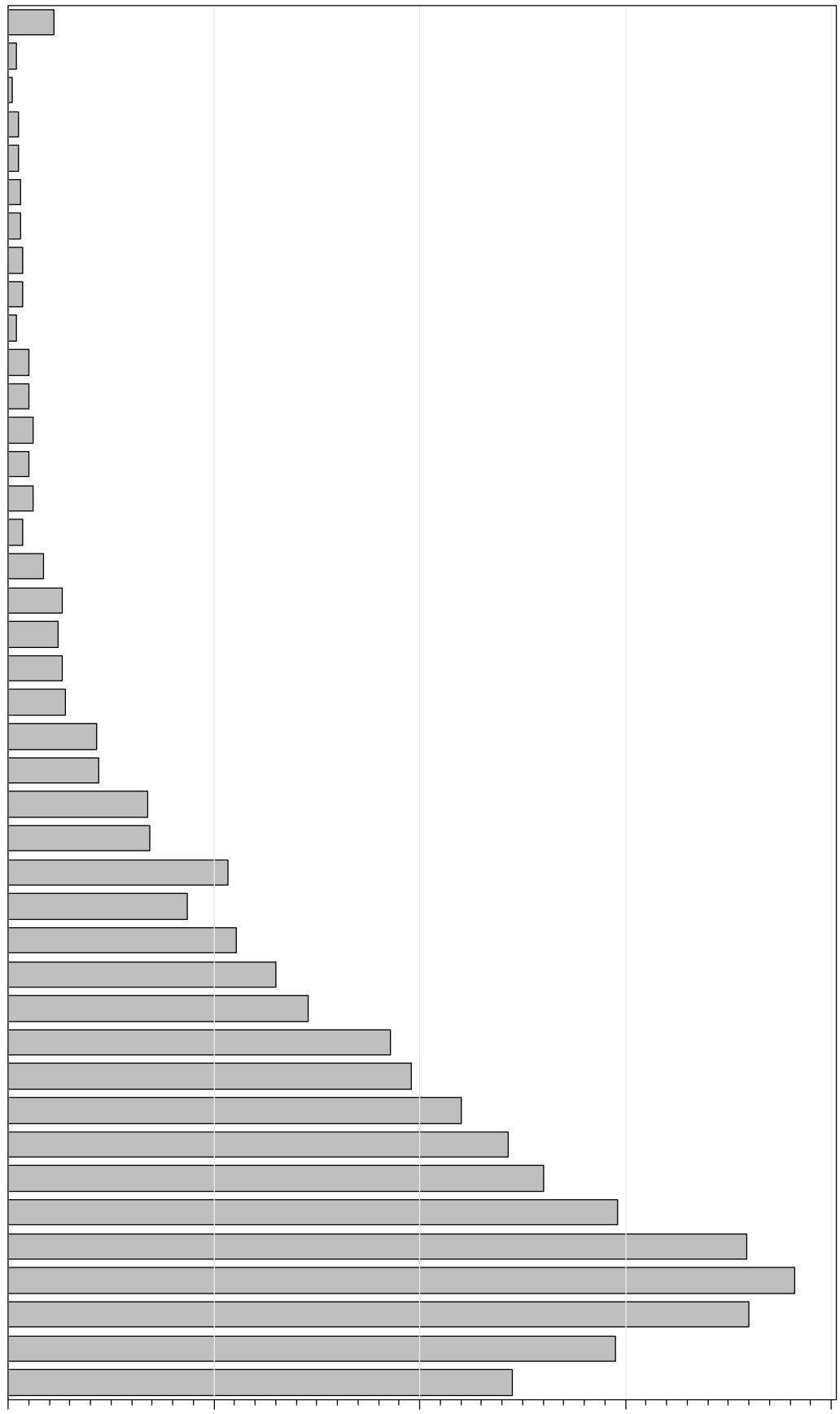
STAAR ALTERNATE 2 EOC SPRING 2016
ENGLISH II
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
100	20	20	0.55	0.55
171	8	28	0.22	0.77
188	2	30	0.06	0.83
200	6	36	0.17	0.99
210	3	39	0.08	1.07
218	6	45	0.17	1.24
225	6	51	0.17	1.40
232	3	54	0.08	1.49
238	8	62	0.22	1.71
243	5	67	0.14	1.84
249	4	71	0.11	1.95
254	17	88	0.47	2.42
259	5	93	0.14	2.56
263	11	104	0.30	2.86
268	22	126	0.61	3.47
273	17	143	0.47	3.93
277	26	169	0.72	4.65
282	23	192	0.63	5.28
286	26	218	0.72	6.00
291	56	274	1.54	7.54
295	51	325	1.40	8.94
300	62	387	1.71	10.64
305	84	471	2.31	12.95
309	91	562	2.50	15.46
314	96	658	2.64	18.10
319	144	802	3.96	22.06
324	150	952	4.13	26.18
329	177	1129	4.87	31.05
334	206	1335	5.67	36.72
340	245	1580	6.74	43.45
345	248	1828	6.82	50.28
352	278	2106	7.65	57.92
359	271	2377	7.45	65.37
366	281	2658	7.73	73.10
375	265	2923	7.29	80.39
386	239	3162	6.57	86.96
399	191	3353	5.25	92.22
418	145	3498	3.99	96.20
449	89	3587	2.45	98.65
505	49	3636	1.35	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

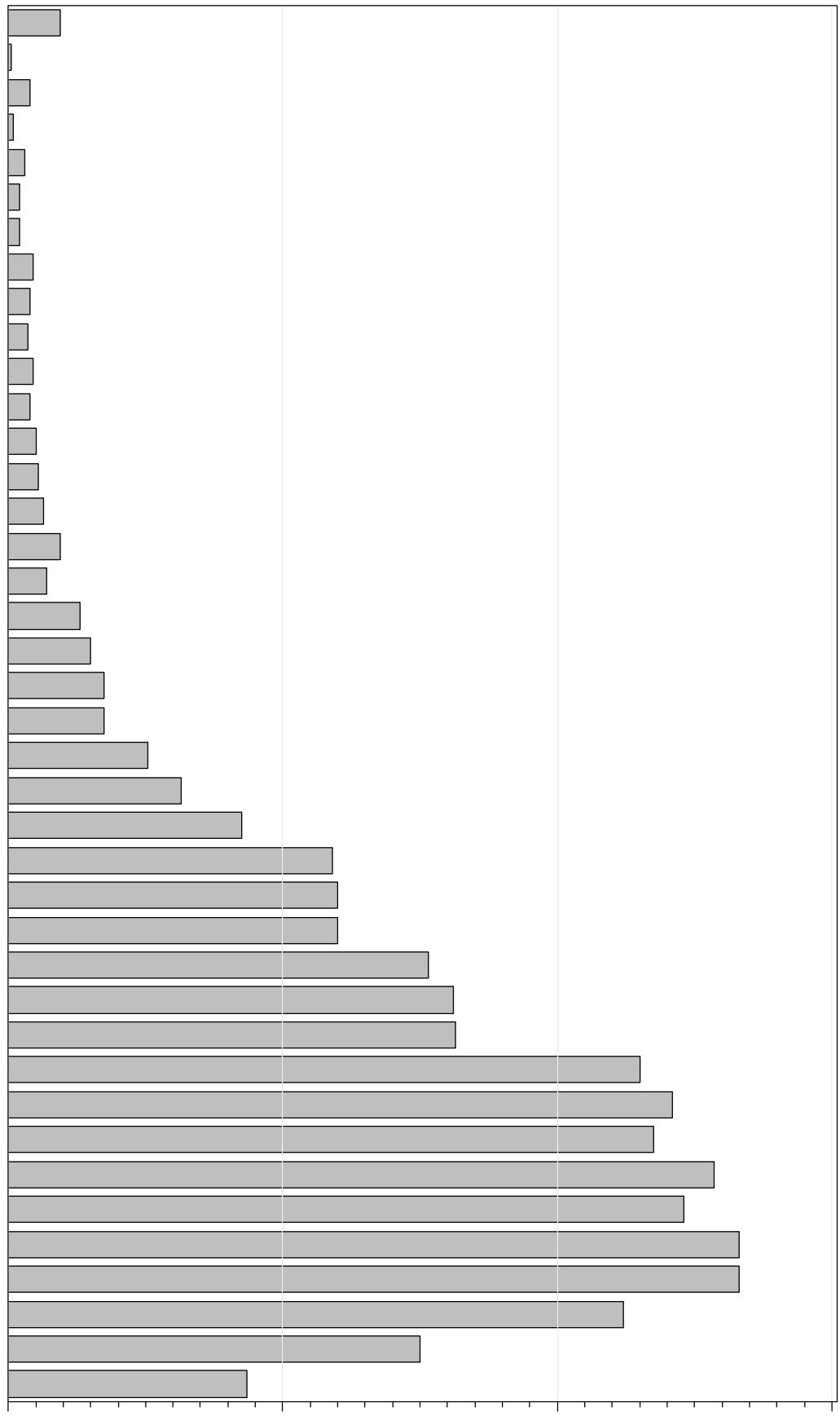
STAAR ALTERNATE 2 EOC SPRING 2016
BIOLOGY
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
127	22	22	0.54	0.54
169	4	26	0.10	0.63
192	2	28	0.05	0.68
206	5	33	0.12	0.81
215	5	38	0.12	0.93
223	6	44	0.15	1.07
230	6	50	0.15	1.22
236	7	57	0.17	1.39
242	7	64	0.17	1.56
247	4	68	0.10	1.66
251	10	78	0.24	1.90
256	10	88	0.24	2.15
260	12	100	0.29	2.44
265	10	110	0.24	2.68
269	12	122	0.29	2.98
273	7	129	0.17	3.15
277	17	146	0.41	3.56
281	26	172	0.63	4.20
285	24	196	0.59	4.78
289	26	222	0.63	5.42
292	28	250	0.68	6.10
296	43	293	1.05	7.15
300	44	337	1.07	8.23
304	68	405	1.66	9.89
308	69	474	1.68	11.57
312	107	581	2.61	14.18
316	87	668	2.12	16.30
320	111	779	2.71	19.01
324	130	909	3.17	22.19
329	146	1055	3.56	25.75
333	186	1241	4.54	30.29
338	196	1437	4.78	35.07
343	220	1657	5.37	40.44
349	243	1900	5.93	46.38
356	260	2160	6.35	52.72
363	296	2456	7.22	59.95
372	359	2815	8.76	68.71
383	382	3197	9.32	78.03
398	360	3557	8.79	86.82
424	295	3852	7.20	94.02
469	245	4097	5.98	100.00

FREQUENCY DISTRIBUTION - SCALE SCORES

STAAR ALTERNATE 2 EOC SPRING 2016
U.S. HISTORY
ALL STUDENTS



SCALE_SCORE	FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
106	19	19	0.54	0.54
150	1	20	0.03	0.57
175	8	28	0.23	0.80
189	2	30	0.06	0.85
208	6	36	0.17	1.02
215	4	40	0.11	1.14
222	4	44	0.11	1.25
228	9	53	0.26	1.51
233	8	61	0.23	1.73
239	7	68	0.20	1.93
244	9	77	0.26	2.19
249	8	85	0.23	2.42
253	10	95	0.28	2.70
258	11	106	0.31	3.01
262	13	119	0.37	3.38
267	19	138	0.54	3.92
271	14	152	0.40	4.32
275	26	178	0.74	5.06
279	30	208	0.85	5.92
283	35	243	1.00	6.91
288	35	278	1.00	7.91
292	51	329	1.45	9.36
296	63	392	1.79	11.15
300	85	477	2.42	13.57
304	118	595	3.36	16.92
309	120	715	3.41	20.34
313	120	835	3.41	23.75
317	153	988	4.35	28.10
322	162	1150	4.61	32.71
327	163	1313	4.64	37.34
332	230	1543	6.54	43.89
338	242	1785	6.88	50.77
344	235	2020	6.68	57.45
351	257	2277	7.31	64.76
359	246	2523	7.00	71.76
368	266	2789	7.57	79.32
380	266	3055	7.57	86.89
396	224	3279	6.37	93.26
424	150	3429	4.27	97.53
472	87	3516	2.47	100.00