





Skewness. 7KH VNHZQH QGLFDWRU RI WKH VKDSH RI WKH VFRUH  
 PHDVXUHM WKH WR ZKLFK WKH VFRUH WKH PRDQRQ OH  
 SRVLWLYH VNHZQHVV LQGLFDWHV WKDW WKH VFRUH GLVW  
 QHJDWLYH VNHZQHVV LQGLFDWHV WKDW WKH VFRUH OHDQV DER  
 VNHZQHVV RI JHUR LQGLFDWHV WKDW WKH VFRUH GLVWULE  
 LV FRPSXWHG XVLQJ WKH IROORZLQJ IRUPXOD

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

ZKHU HV WKH VFRUH RI WKH PHDVXUW WKH VWDQGDUG GHYLD  
 DQGLWKH WRWDO QXPEHU RI VWXGHQWV WKDW WRRN WKH

Kurtosis. 7KH NXUWRV LV DQRWKHU LQGLFDWRU RI



Scale Score Descriptive Statistics for 2017 STAAR Alternate 2 EOC Assessments

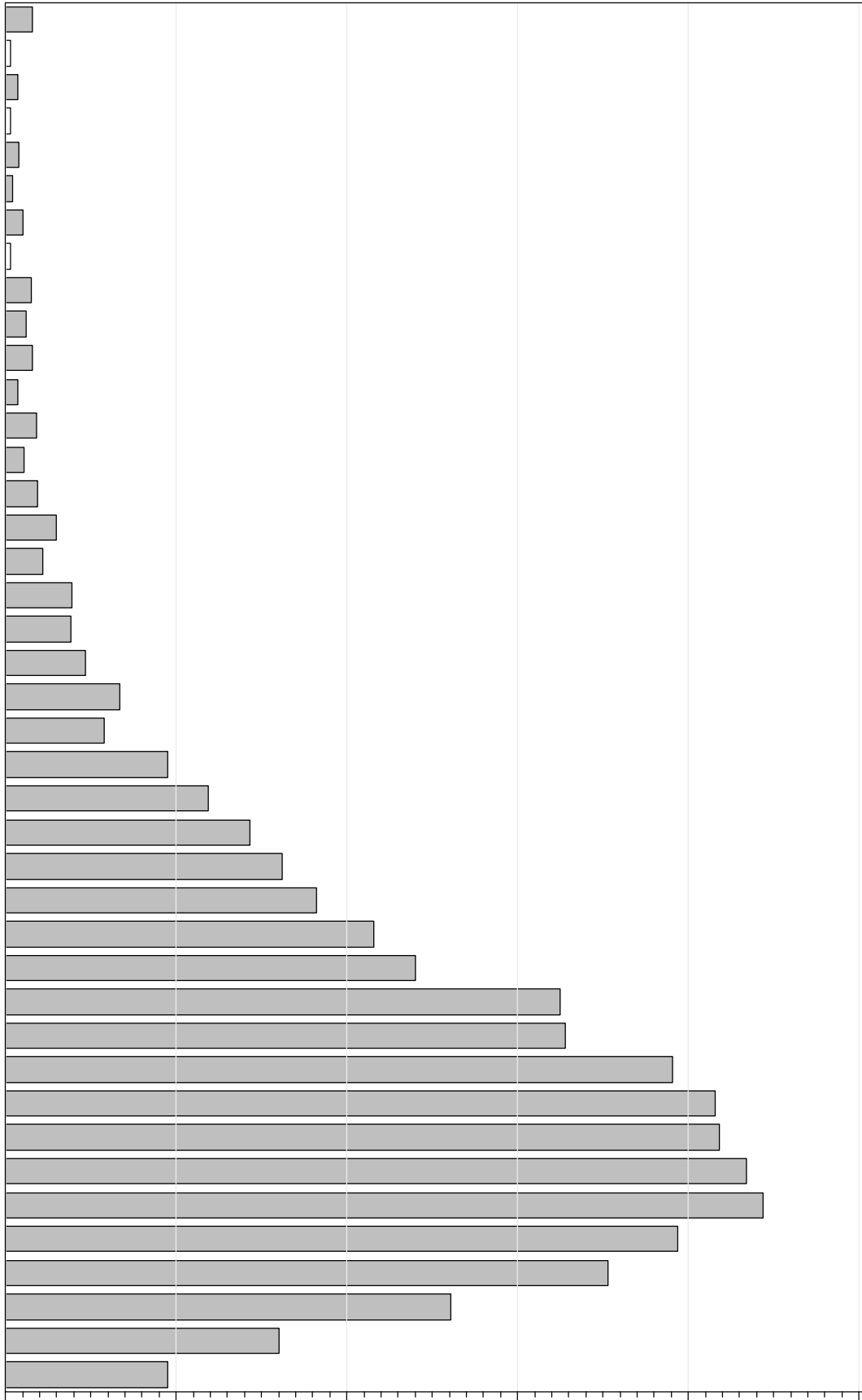
Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
ALGEBRA I	4616	348.30	345	366	401	50	48.96	2396.91	-0.4404	4.7729
ENGLISH I	4606	350.17	353	367	406	52	47.52	2257.81	-0.4646	4.8758
ENGLISH II	4237	356.25	355	361	406	46	49.99	2498.95	-0.0776	4.231(077

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 GRADE 3 MATHEMATICS  
 ALL STUDENTS

Scale Score

105  
 149  
 173  
 188

FREQ.	CUM. FREQ.	PCT.	CUM. PCT.
16	16	0.28	0.28
3	19	0.05	0.34
7	26	0.12	0.46
3	19		



Frequency

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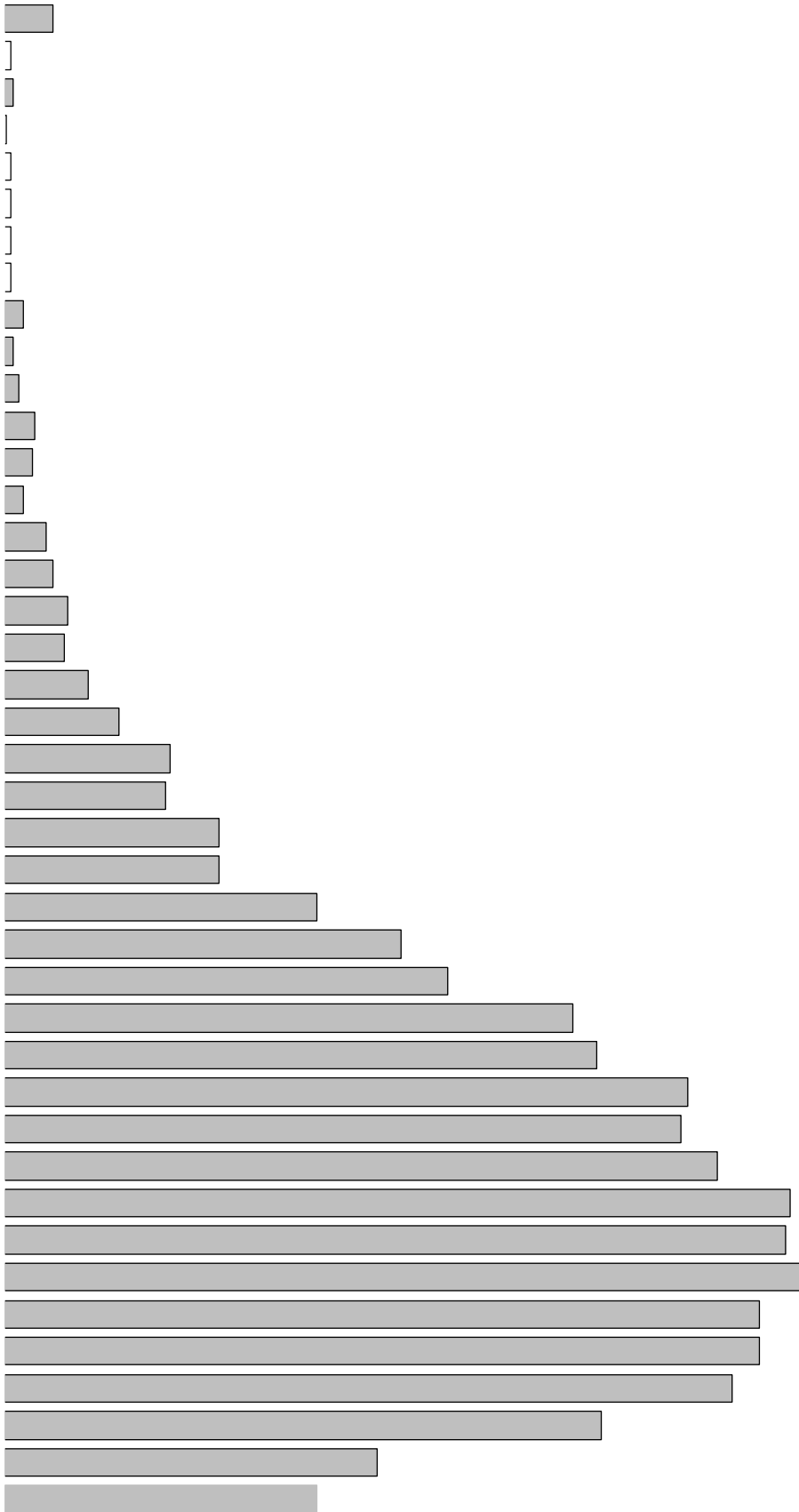
GRADE 4 MATHEMATICS STAAR ALTERNATE 2 SPRING 2017 0 0 10.09 195.36 764.64 Tm (







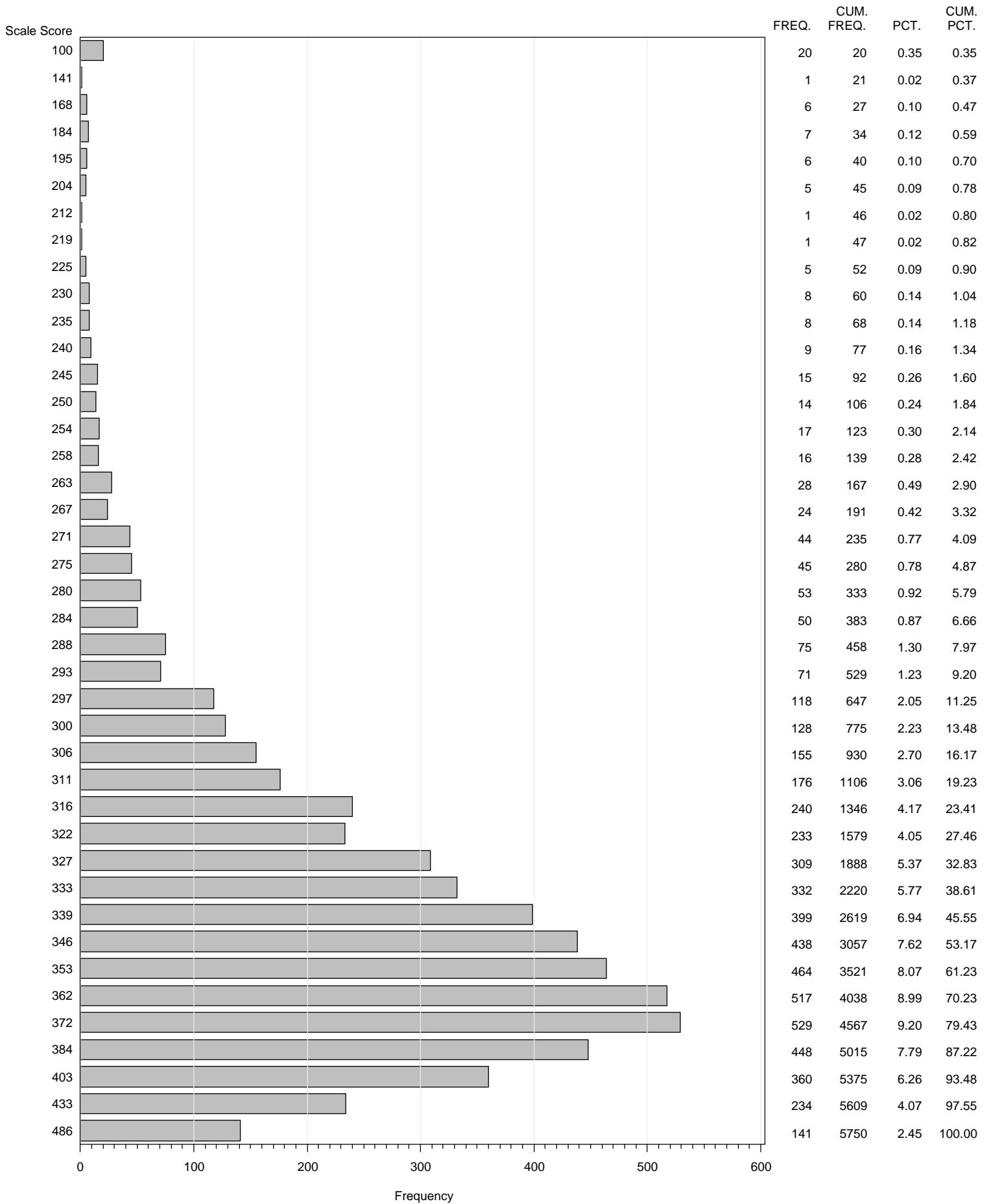
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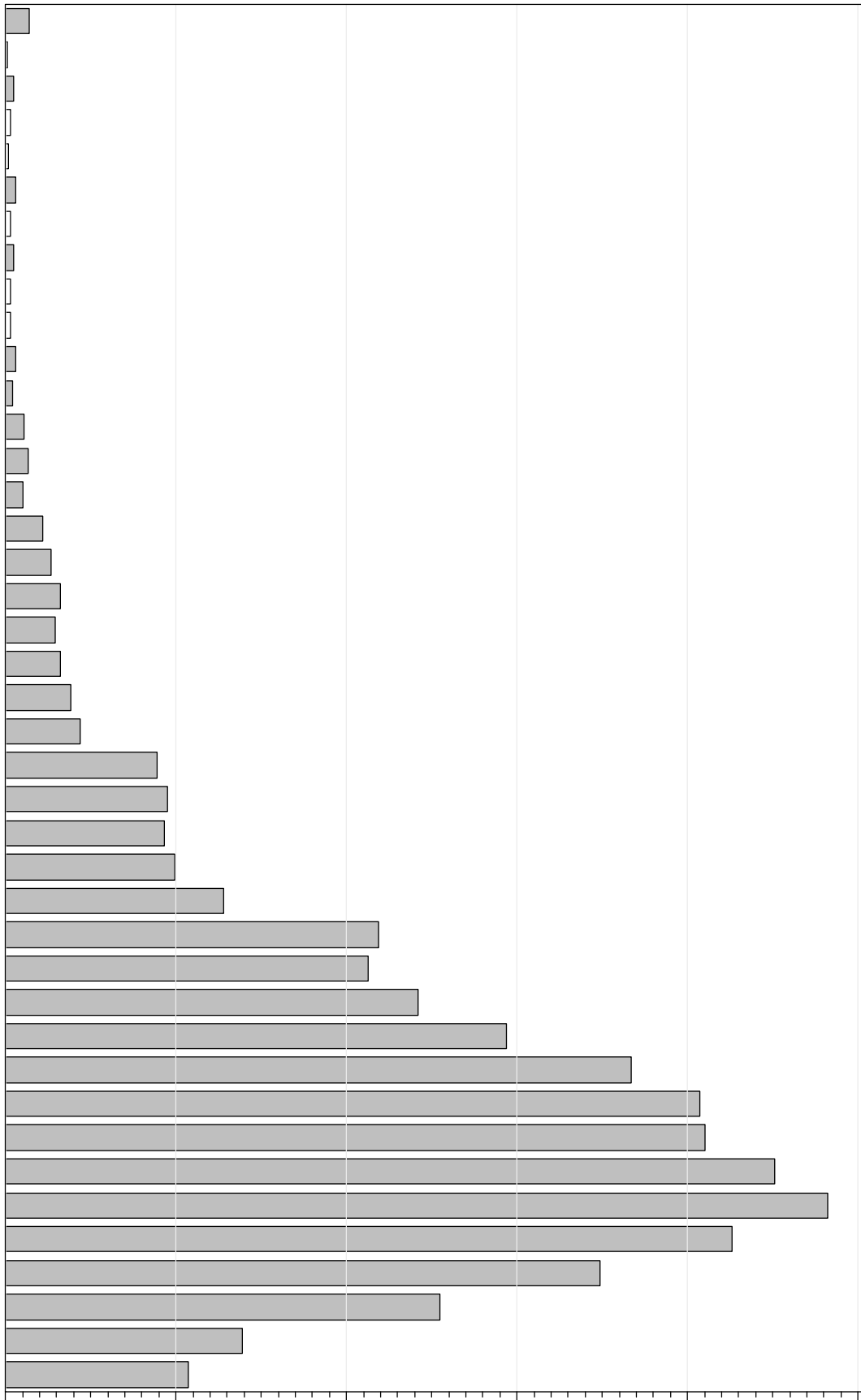


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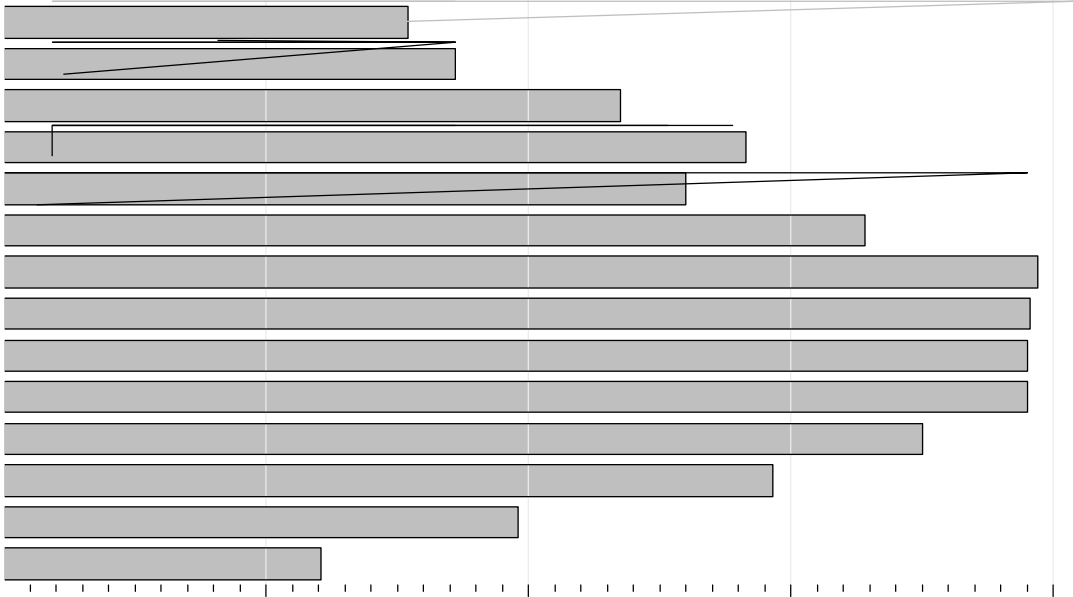
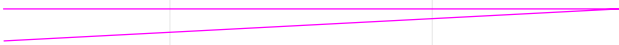
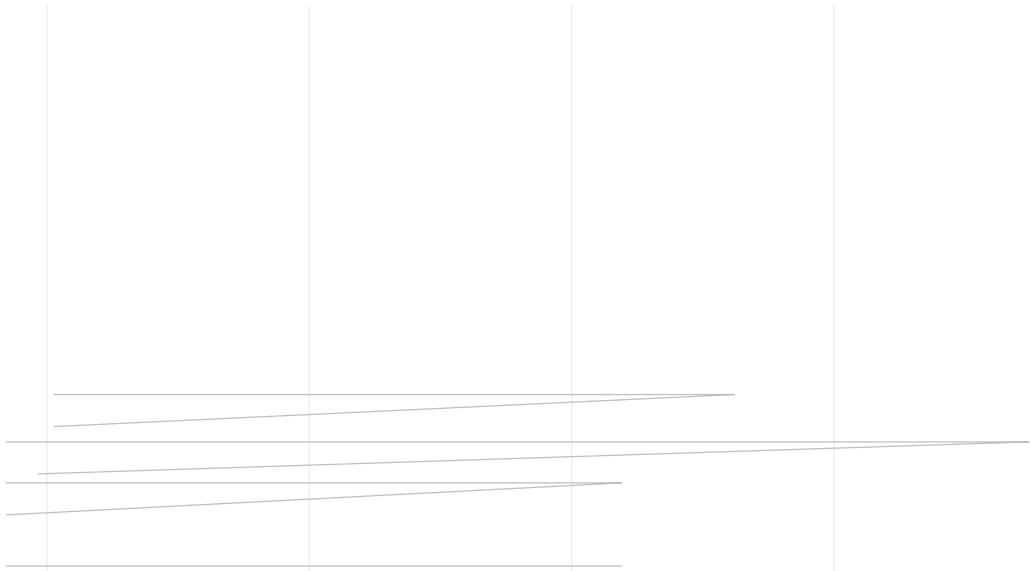






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GRADE 7 WRITING

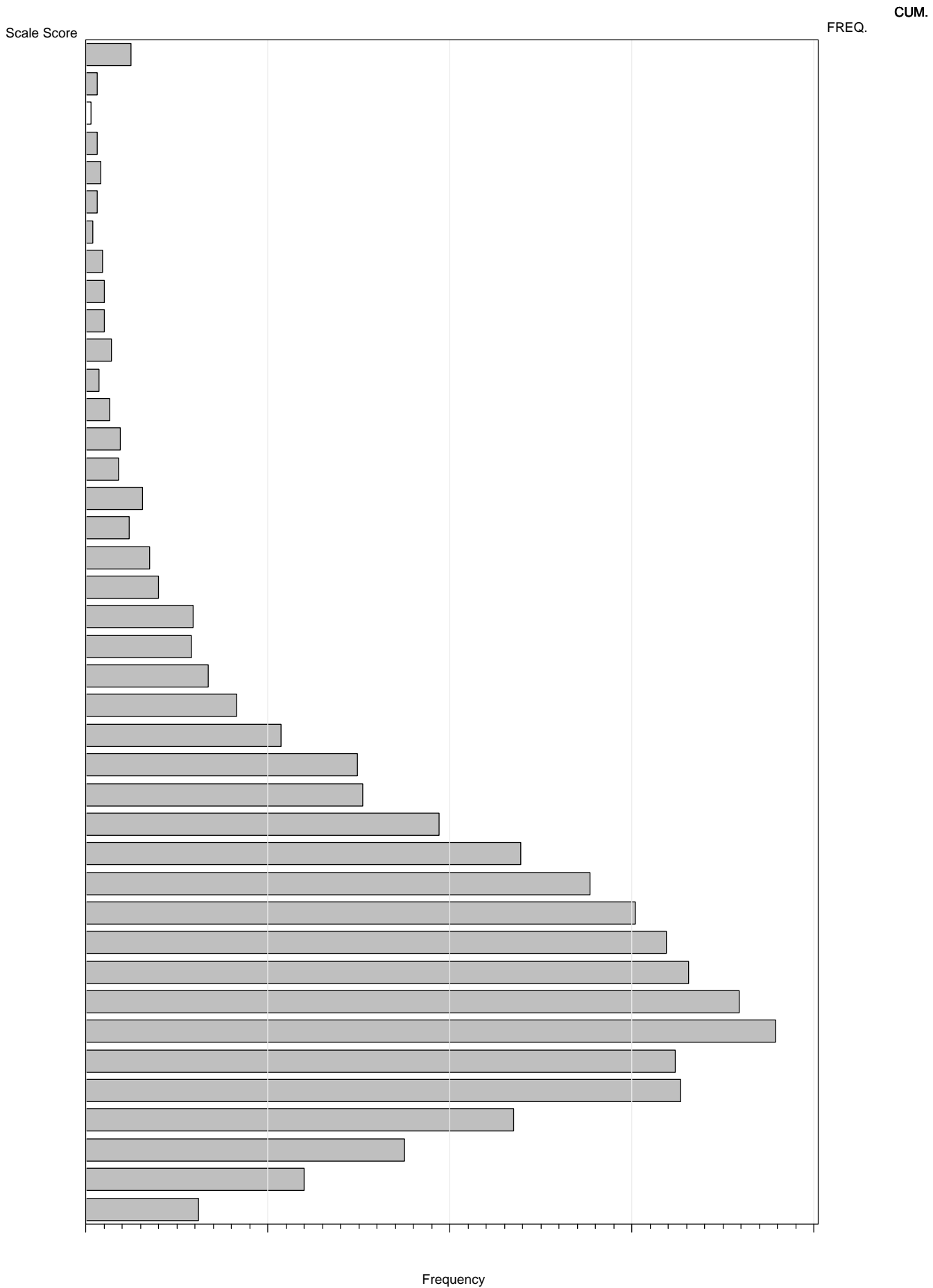








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