

### Practice Computational Problems

1. A professor counted the number of words students used to answer an essay question.

Create a ranked frequency distribution of these data.

245   261   289   222   291   289   240   233   249   200

2. A physiological psychologist found the level of a particular hormone in the blood of humans ranged from 800 micrograms per liter of blood to 1200 micrograms per liter.

a. Calculate the range of scores

b. If the desired number of intervals is 20, what is the interval size?

c. If the desired number of intervals is 12, what is the interval size?

d. With an interval size of 30 micrograms, what is the number of intervals?

e. With an interval size of 50 micrograms, what is the number of intervals?

3. A developmental psychologist and her research team observed children's behavior after they played a video game and recorded the number of aggressive acts per hour. Use the interval size of 3 to generate a frequency distribution that includes the real limits, the apparent limits, the frequency, the relative frequency, the cumulative frequency, the cumulative relative frequency, and the cumulative percent.

1	2	2	2	2	2	4	4	5	5	5	6
7	7	7	7	8	8	8	8	9	10	10	10
11	11	12	12	12	12	12	12	13	14	14	15
15	15	15	16	17	17	18	18	18	18	19	20
21	21	21	22	22	23	24	26	26	27	27	31

<i>Real Limits</i>	<i>Apparent Limits</i>	<i>f</i>	<i>rel f</i>	<i>cum f</i>	<i>cum rel f</i>	<i>cum %</i>



