

Name _____

SHOW AS MUCH WORK AS POSSIBLE BECAUSE YOU MAY RECEIVE PARTIAL CREDIT FOR THE WORK YOU DO IF YOUR ANSWER IS INCORRECT.

- 1) For the following data set calculate the mean, median, and mode; and construct a frequency table with 4 classes.

High temperatures (in °F) for Knoxville, TN, for 1/1/06 – 1/10/06 (Source: www.weather.com):

60 63 53 60 50 40 44 63 65 64

Mean: 56.2 Median: 60 Mode: 60, 63

<i>Class limits</i>	<i>Frequency</i>
40 – 46	2
47 – 53	2
54 – 60	2
61 – 67	4

- 2) For the following data in grouped form: calculate the mean and mode; and construct a **relative** frequency histogram.

Age distribution (in years) for a sample of American robins (Source: Farner, 1945):

<i>Class Boundaries</i>	<i>Frequency, f_i</i>	<i>Midpoint, x_i</i>	<i>$f_i x_i$</i>
0.0 – 2.0	1504	1.0	1504
2.0 – 4.0	282	3.0	846
4.0 – 6.0	94	5.0	470

Mean: 1.5 Mode: 1.0

