Willard Middle School – Mathematics

SUMMATIVE TEST – Power Standard 8:4

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_

1. Find the mean, median, and mode for the following set of numbers. Round mean to tenths if necessary.)

3,3,3,1,1,1,4,5,2

a. 2.6, 1, 1 and 3

b. 2.6, 3, 1 and 3

c. 23, 3, no mode

d. 23, 3, 1 and 3

1. Ted earned the following by mowing: $20, $20, $35, $30. If he earned another $35, which of the following statements would be true?

a. The mean will increase.

b. The mean will decrease.

c. The mode will not be affected.

d. The median will decrease.

1. Find the range and the interquartile range for the following set of data:

24, 10,22,18,14,14,17,16

1. Range=8, interquartile range = 7
2. Range = 14, interquartile range = 6
3. Range = 14, interquartile range = 7
4. Range = 14, interquartile range = 6.5
5. Write a word problem about a real-life situation in which you could construct a line graph to solve a problem. Explain why the line graph would be helpful.
6. Explain two things you could do to use the following set of data to construct a misleading graph:

January: $500

April: $450

July: $600

October: $475

1. Construct a set of data that has a mode of 10 and a median of 8.