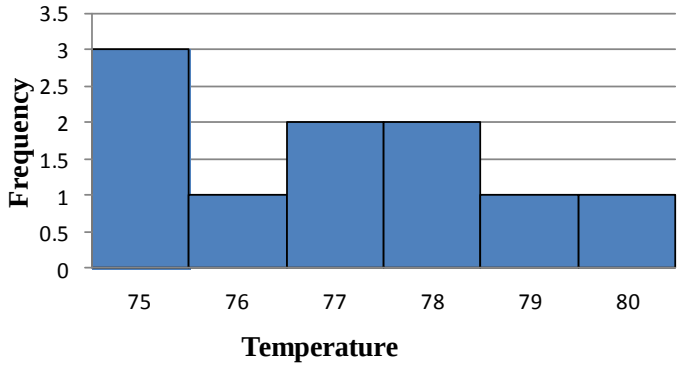
Mr. Powder
AR 9

Math 7R
Name: _____

1. The histogram below shows the distribution of the temperatures for ten days.

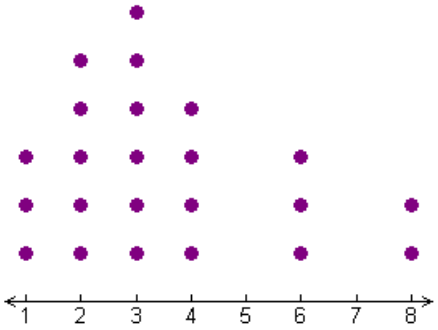


   a) Which temperature is the mode?

   b) What is the total number of temperatures recorded?

2. In a basketball game, the number of points scored by the members of the team was: 28, 20, 16, 15, and 8. How many players scored fewer than the median number of points?

3. The accompanying dot plot represents the amount of runs scored by the school's baseball team in games they won.



   a) What is the most amount of runs scored for a win?

   b) What is the least amount of runs scored in a win?

   c) What is the most frequent amount of runs scored in a game?

   d) How many times did the team win?

For problems 4 and 5, circle the best answer that describes the sampling method.

4. Your school's administrators want to know where students want to go on the class trip at the end of the year. The administrators randomly survey 30 freshmen, 30 sophomores, 30 juniors, and 30 seniors.

a) random sample
b) stratified random sample
c) systematic sample
d) self-selected sample
e) convenience sample

5. The manager at a local bookstore is selecting authors that can come in and give readings from the author's recently published books. The bookstore surveys every other person who buys books at the store to determine which authors will bring in the biggest audience.

a) random sample
b) stratified random sample
c) systematic sample
d) self-selected sample
e) convenience sample

For problems 6 – 7, tell whether the survey method is likely to result in a biased sample.

6. The owners of a music store chain want to determine whether or not they should open their stores an hour earlier. They survey the customers in one of their stores at random.

7. A group of students living in the dormitories at a college wants to gather information about the need for a shuttle bus to a local shopping center. They survey every fourth room on each floor of each dormitory.

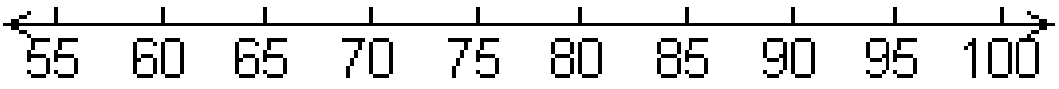
8. The following scores were obtained on an exam given by Mr. Classico to his history class. Be sure to title your graph and include a key.

   74, 80, 65, 85, 95, 72, 76, 72, 92, 84, 75, 75, 60, 74, 75, 63, 78, 87, 90, 70

   a) Construct a Stem and Leaf plot for the data.

Stem	Leaves

   b) Construct a box and whisker plot for the data. Be sure to state the five number summary.



9. The following data consists of the weights, in pounds, of 30 adults:

195, 250, 100, 98, 150, 210, 195, 106, 195, 168, 180, 212, 104, 195, 100, 216, 195, 209, 112, 99, 206, 116, 195, 100, 142, 100, 135, 98, 160, 155

Using the data, complete the accompanying frequency table and construct a frequency histogram on the grid below. Be sure to label each axis, title the graph, and include a key if necessary.

Interval	Tally	Frequency
51 – 100		
101 – 150		
151 – 200		
201 – 250