Unit 11 Review Sheet

Test on Tuesday, May 14

Topics:

- Likelihood (impossible to certain)
- Probability of an outcome with a sample space (tree diagram or systematic list) and fundamental counting principle
- Line plots and Stem and Leaf Plots
- Mean, Median, Mode, and Range

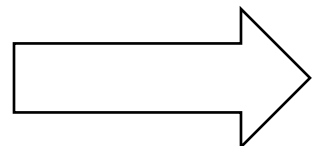Use the number line to place the events (question 1-3) based on their likelihood to occur. (1=certain 0=impossible)

0   *1*

_____

1) Probability of rolling a six on a regular number cube.
2) Probability of rolling an even number of a regular number cube
3) Probability of rolling a nine on a regular number cube.

4) Harry is making an ice-cream sundae. He can choose strawberry or vanilla ice-cream with or without sprinkles. Based on the fundamental counting principle, how many total sundae choices does Harry have? _____

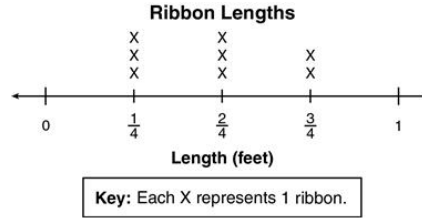5) Create a sample space (tree diagram or list) to show all of the combinations for Jeremiah's class schedule.

Science Class	Art Class	Physical Education
Earth Space Physics Chemistry	Creative Writing Ancient Art	Health Weight Lifting Golf

6) Mrs. Garcia has 20 students in her class. Only 12 of the students ride the bus. If she randomly selects a student to bring snack for the class, what is the probability (in fraction form) Mrs. Garcia will choose a student who does NOT ride the bus? Simplify if possible. _____

7) A deck of 32 cards contains 8 blue cards, 13 red cards, and 11 yellow cards. What is the probability (in fraction form) of randomly selecting a blue card from the deck? Simplify if possible. _____

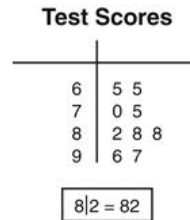8) Create a Line Plot for the data set: 17, 11, 23, 29, 11, 19, 29, 30, 17, 17

9) Create a Stem and Leaf Plot for the data set: 18, 12, 25, 19, 12, 27, 30, 10

This line plot shows the lengths, to the nearest $\frac{1}{4}$ foot, of different pieces of ribbon in Mrs. Weatherly's craft drawer.

Ribbon Lengths

```
    X       X
    X       X       X
    X       X       X
 +--+---+---+---+---+-->
 0  1/4 2/4 3/4  1
      Length (feet)
```

Key: Each X represents 1 ribbon.

10) Mrs. Weatherly placed all the pieces of ribbons end to end. What is the total length of all of these ribbon pieces? _____

Robbie's math test scores are shown on the stem-and-leaf plot.

Test Scores

6	5 5
7	0 5
8	2 8 8
9	6 7

8|2 = 82

11) What is the total number of test scores shown on the stem-and-leaf plot? _____

12) When finding the Mean, Median, Mode, or Range, the first thing you need to do is put your data in order from _____ to _____.

13) The following numbers show how long Patrick spent practicing soccer for 5 days: 30, 35, 40, 45, 50. What is the mean number of minutes Patrick spent practicing soccer? _____

14) Martha bought 5 items at the grocery store. The prices are listed below. What was the median price of the items Martha bought? $1.29, $6.30, $0.25, $4.55, $1.55 _____

15) Rylee built 6 bird houses. The lengths, in inches, are listed below. What is the range for Rylee's bird houses? 12, 29, 17, 5, 8 _____

16) Sasha biked each day for a week. The mileage for each day is listed below. What is the mode of Sasha's distance? 19, 5, 10, 4, 10, 12 _____