

Name: _____

Period: _____

Probability Review

1. There are 6 red, 5 yellow, 9 blue and 4 green marbles. What is the probability of picking a yellow marble? _____ a green marble? _____ and blue or red marble? _____

2. looking back at question #1. Lets say you tripled the number of marbles. What is the chance that you pick a red marble? _____

3. You have 4 shoes 2 pairs of pants and 10 shirts. How many different outfits do you have? _____

4. What is theoretical probability? _____

5. Create and describe a situation where you would use theoretical probability.

6. What is experimental probability? _____

7. Create and describe a situation where you would use experimental probability. _____

8. You are guessing a password. The password has 6 characters. the first 2 are digits and the last 4 are letters. How many different passwords could there be? _____

What are your chances of guessing the password correctly the first time?

7. Where are some places in real life where you would use probability?

Describe at least 2 places.

8. Now get 2 number cubes. Do an experiment roll the cube 20 times and record the sums of the numbers you get below.

a 2? _____ a 3? _____ a 4? _____ a 5? _____

a 6? _____ a 7? _____ an 8? _____ a 9? _____

a 10? _____ an 11? _____ a 12? _____

9. So using the information you created in #8 if you had to guess what the next 2 number cubes would add up to be, what number would you pick? _____ Why?

12. What number occurred most often? _____ Was it what you expected? _____ Why or why not? _____

13. Here is a list of data. 4,5,7,9,10,14,17,23,26,29,33,36,39

14. What is the mean? _____

15. What is the mode? _____

16. What is the range _____

17. What is the median? _____