Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12/16/2014

1. You roll a 6-sided die 150 times. Predict how many times you will roll a 3 or 4.
2. Celia volunteers at her local animal shelter. She has an equally likely chance to be assigned to the dog, cat, bird, or reptile section. If she volunteers 24 times, about how many times should she expect to be assigned to the dog section?
3. Predict how many times you will roll a number less than 5 if you roll a standard number cube 250 times.
4. You flip a fair coin 18 times. About how many times would you expect heads to appear?
5. A bag contains 6 red marbles, 2 white marbles, and 1 gray marble. You randomly pick out a marble, record its color, and put it back in the bag. You repeat this process 45 times. How many white or gray marbles do you expect to get?
6. Suppose a solitaire player has played 1,000 games. Predict how many times the player turned over a red card as the first card.
7. Every day, Navya’s teacher randomly picks a number from 1 to 20 to be the number of the day. The number of the day can be repeated. There are 180 days in the school year. Predict how many days the number of the day will be greater than 15.
8. Eben rolls two standard number cubes 36 times. Predict how many times he will

roll a sum of 4.

1. Daniel rolls two standard number cubes 5 times. Predict how many times he will

roll a sum that is a prime number.

1. A bag contains 6 red marbles, 2 white marbles, and 2 green marble. You randomly pick out a marble, record its color, and put it back in the bag. You repeat this process 75 times. How many marbles that are **NOT** green do you expect to get?