

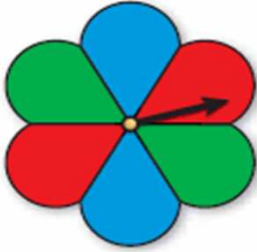
# MasterMath

## Theoretical and Experimental Probability

Name \_\_\_\_\_

Date \_\_\_\_\_

1. The colored wheel is spun 50 times, and the results are shown in the table below. Answer these questions:



blue	red	green
15	18	17

What was the Experimental Probability of landing on red?

What is the Theoretical Probability of landing on red?

What was the Experimental Probability of not landing on red?

What is the Theoretical Probability of not landing on red?

What was the Experimental Probability of landing on green or red?

2. If you roll a die like the one pictured, what would be the Theoretical Probability of each of these events:



Rolling either a 5 or a 6

Rolling a number less than 3

Rolling a number larger than 2

Rolling an odd number

3. There are 84 colored chips in a bag, each either red, white or blue. The Theoretical Probability of picking a blue chip is 25%. How many blue chips are in the bag?

4. **Lowest Temperature** Based upon the statistics shown in this table:

Temp.	Frequency
20° - 30°	7
30° - 40°	7
40° - 50°	14
50° - 60°	16
60° - 70°	6

What is the Probability that the low temperature on May 1st will be higher than 40°?

Is this a Theoretical or an Experimental Probability?

What is the Probability that the low temperature will be between 50° and 70°?

5. From a deck of 52 playing cards, what is the probability that if you draw one card, it will be a 2, 3, 4 or 5? (The deck has 4 suits, each with a 2,3,4,5,6,7,8,9,10, jack, queen, king and ace)



Is this an Experimental or a Theoretical Probability?