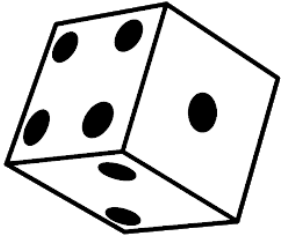


Name: _____

Probability of Events - Rolling a Dice



Rolling a Dice

A dice has 6 sides. Each side has a number of dots between 1 and 6. When you roll a dice, you have a low probability of rolling a certain number.



Instructions: describe the probability of events as a fraction, a decimal, and a percentage.

1. What is the probability of you rolling a 1?
2. What is the probability of you rolling a 5?
3. What is the probability of you rolling a 1, 2, or 3?
4. What is the probability of you rolling a 1, 2, 3, or 4?
5. What is the probability of you rolling an odd number?
6. What is the probability of you rolling a 7?

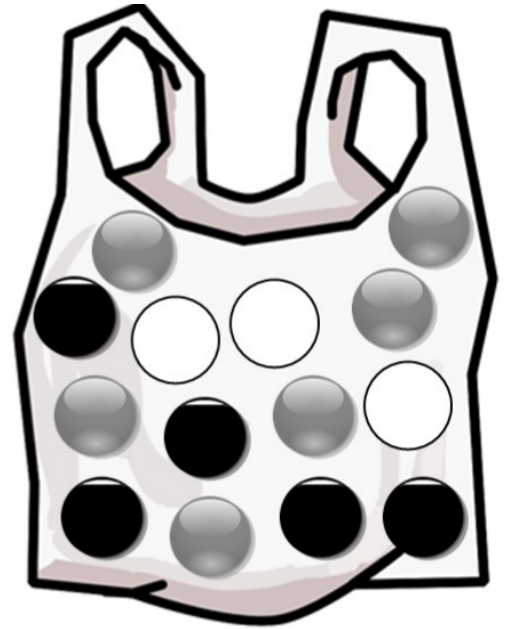
Extension: choose one event above (from 1-6, NOT 7!) to test. Try a trial of 10 rolls - how close was your probability to the actual results? Try a trial of 50 rolls - how did your results change?

Name: _____

Probability of Events - Coloured Marbles

Marbles

There are 14 marbles in a bag. What is the likelihood of you pulling a white, grey, or black marble?



Instructions: fill in the frequency table below.

Marble Colour	Frequency
Black	
Grey	
White	

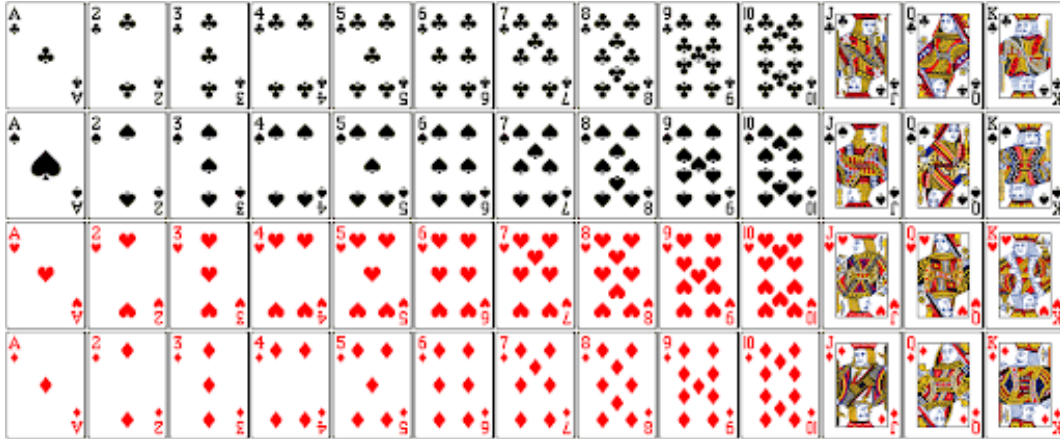
Instructions: describe the probability of events as a fraction, a decimal, and a percentage.

1. What is the probability of you pulling out a black marble?
2. What is the probability of you pulling out a grey marble?
3. What is the probability of you pulling out a white marble?
4. What is the probability of you pulling out a black, grey, or white marble?
5. What is the probability of you pulling out a black or white marble?
6. What is the probability of you pulling out a green marble?

Name: _____

Probability: Playing Cards

Background: You've been chosen to participate in a magic trick and must randomly choose one card from the deck.



A standard deck of cards has 52 cards (Ace - King in four different suits).

Instructions: Describe the probabilities below as both a **FRACTION** and as a **PERCENTAGE**.

- 1) What is the probability that you will select a black card?
- 2) What is the probability that you will select a diamond?
- 3) What is the probability that you will select an Ace?
- 4) What is the probability that you will select a red 2?