

# Probability Coin Toss

What is probability? Probability is the chance that a particular outcome will occur.



Find the probability of a coin toss. Get together with a partner and record the number of heads or tails you get as you toss a coin.

Toss a coin 10 times.

# of heads \_\_\_\_\_

# of tails \_\_\_\_\_

Write the number  
in fraction form.

heads \_\_\_\_ / \_\_\_\_

tails \_\_\_\_ / \_\_\_\_

Toss a coin 20 times.

# of heads \_\_\_\_\_

# of tails \_\_\_\_\_

Write the number  
in fraction form.

heads \_\_\_\_ / \_\_\_\_

tails \_\_\_\_ / \_\_\_\_

Toss a coin 30 times.

# of heads \_\_\_\_\_

# of tails \_\_\_\_\_

Write the number  
in fraction form.

heads \_\_\_\_ / \_\_\_\_

tails \_\_\_\_ / \_\_\_\_

A. What is the total number of heads tossed? \_\_\_\_\_ Tails? \_\_\_\_\_

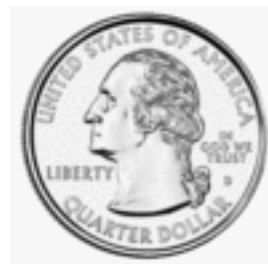
B. What is the probability of total heads tossed? \_\_\_\_\_ Tails? \_\_\_\_\_

C. What do these results tell you? \_\_\_\_\_

# Probability Coin Toss

Find the probability of a coin toss.  
Answer the questions about tossing a quarter.

What is probability? Probability is the chance that a particular outcome will occur.



If you toss a quarter...

- 1.) What is the probability you get tails?
- 2.) What is the probability you get heads?
- 3.) You toss the quarter and get heads. What is the probability you get heads again on a second toss?
- 4.) You toss the quarter three times and get tails each time. What is the probability you get heads the fourth time you toss it?

# Probability

## Dice Roll



Reminder: Probability is the chance that something will happen.



What is the probability of...

- 1.) Rolling a six-sided die and getting a 2?
- 2.) Rolling a six-sided die and getting a number less than 4?
- 3.) Rolling a six-sided die and getting a number over 2?
- 4.) Rolling a six-sided die and getting a 1 or a 5?
- 5.) Rolling two six-sided dice and getting a 5?
- 6.) Rolling two six-sided dice and getting a 3 and a 6?

# Probability

## Rock, Paper, Scissors



*Probability: The chance that something will happen.*

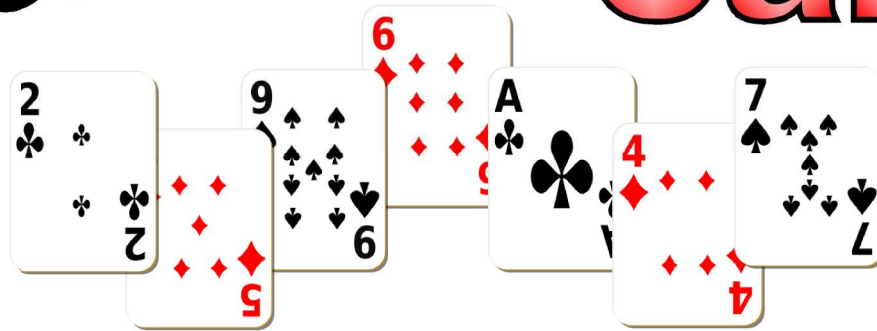
If you and a friend are playing rock, paper, scissors...

1. What is the probability that your friend will throw a rock?
2. What is the probability that your friend will not throw paper?

Get together with a partner and play rock, paper, scissors. Play a total of 20 times and record your data.

1. How many times was rock thrown by your partner? \_\_\_\_\_  
A. What was the probability? \_\_\_\_\_ / \_\_\_\_\_
  2. How many times was paper thrown by your partner? \_\_\_\_\_  
A. What was the probability? \_\_\_\_\_ / \_\_\_\_\_
  3. How many times was scissors thrown by your partner? \_\_\_\_\_  
A. What was the probability? \_\_\_\_\_ / \_\_\_\_\_
  4. What do these results tell you? \_\_\_\_\_
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# Probability Cards



**PROBABILITY:** The chance that an event will occur.

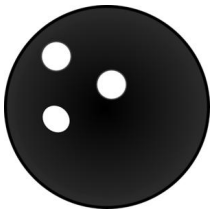
*Tip: There are 52 cards in a deck. Ace is high.*

What is the probability of picking...

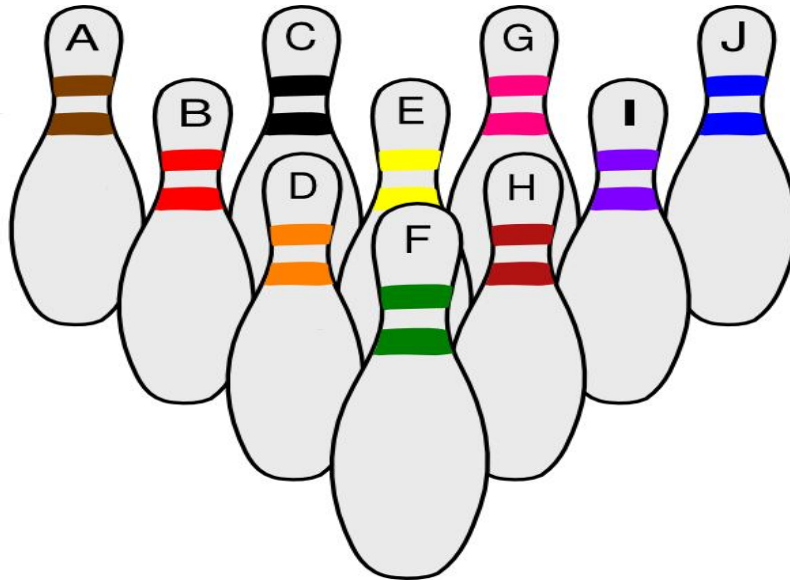
1. an ace from a deck of cards?
2. a number less than 4 from a deck of cards?
3. a face card from a deck of cards?
4. a spade from a deck of cards?
5. an 8 or a 9 from a deck of cards?

**Bonus:** If two jokers are present in a deck of cards, what is the probability of picking one joker?





# Probability Bowling



*Probability is the likelihood that a particular event will occur.*

**Todd is a beginning bowler! If he were to knock down only one pin on his first try, what is the probability that he knocks down...**

1. a blue or green pin?
2. an orange pin?
3. a yellow, brown or pink pin?
4. a black or purple pin?
5. a pin with a letter between B and F?
6. a pin with a letter before E?
7. a pin with the letter J or C?
8. a pin with the letter I?
9. a green or brown pin, or a pin with a letter after D?

Great job!

\_\_\_\_\_ is an Education.com math superstar

