

1. Label each situation below as impossible, unlikely, or likely.

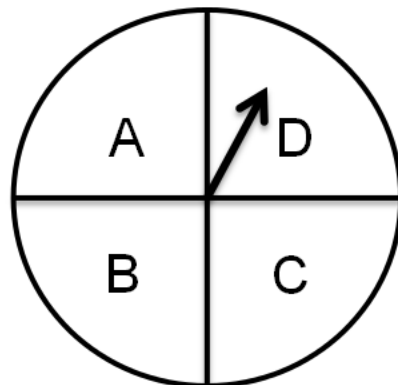
a. Rolling a one on a number cube

b. Rolling a number less than five

c. Rolling a number greater than six

d. Rolling a number less than two

2. Tanner spins the spinner and it lands on B. If he spins the spinner 30 more times, how many times can he expect it to land on B?



1. Label each situation below as impossible, unlikely, or likely.

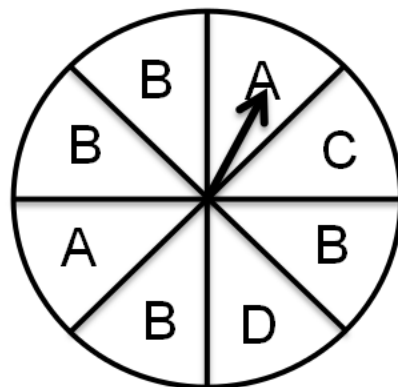
a. Choosing an ace in a deck of cards

b. Choosing a heart, spade, or diamond card in a deck of cards

c. Going swimming in January

d. Pizza for lunch in the cafeteria this month

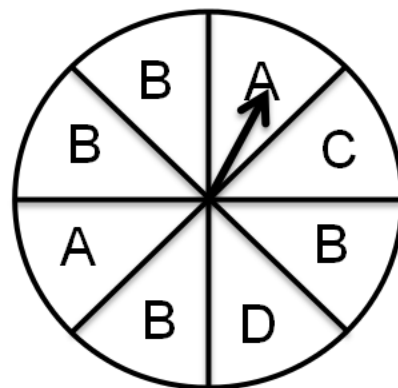
2. What is the probability of spinning a A or C if the spinner is spun 400 times?



1. Assign a number (0 to 1) to the likelihood of the events below:

- a. Your math teacher is older than you
- b. It will snow in Denver in the winter
- c. Flipping tails on a coin
- d. Using a vowel in a word

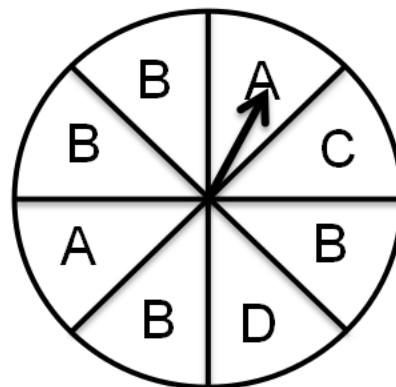
2. If the spinner below is spun 500 times, how many times can you expect to land on B?



1. Assign a number (0 to 1) to the likelihood of the events below:

- a. Someone younger than 16 can drive legally
- b. It will be sunny in Florida
- c. A kindergartner is learning to read
- d. A grocery store sells apples

2. If the spinner below is spun 60 times, how many times can you expect to land on C?



1. A number cube is rolled 20 times. Use the results below to answer the questions:

number	times rolled
1	0
2	4
3	3
4	6
5	5
6	2

- a. experimental probability of rolling a 1
- b. experimental probability of rolling a 5
- c. theoretical probability of rolling a 6

2. In a drawer there are 10 white, 8 black, and 7 blue socks. What is the probability of randomly selecting a white sock?

3. A gumball machine with 200 gumballs has 40 red gumballs, 30 yellow gumballs, 55 blue gumballs and the rest are green. What is the probability of randomly selecting a green gumball?

1. A number cube is rolled 20 times. Use the results below to answer the questions:

number	times rolled
1	1
2	3
3	5
4	2
5	3
6	4

- a. experimental probability of rolling a 0
- b. experimental probability of rolling a 3
- c. theoretical probability of rolling a 5

2. A deck of game cards each have a different shape on them. 12 have a diamond, 8 have a square, 5 have a circle. What is the probability of drawing a square or circle?

3. The word "Mississippi" is spelled in scrabble tiles. If one letter is chosen at random, what is the probability that it is an "s"?

1. A number cube is rolled 20 times. Use the results below to answer the questions:

number	times rolled
1	0
2	4
3	3
4	6
5	5
6	2

- a. experimental probability of rolling a 1 or 4
- b. experimental probability of rolling a 5 or 3
- c. theoretical probability of rolling an even

2. What is the probability of rolling a 2 of 5 on a six sided number cube?

3. What is the probability of drawing a face card in a 52 card deck of playing cards?

1. A number cube is rolled 20 times. Use the results below to answer the questions:

number	times rolled
1	1
2	3
3	5
4	2
5	3
6	4

- a. experimental probability of rolling a 0 or 4
- b. experimental probability of rolling a 3 or 6
- c. theoretical probability of rolling a a number greater than 4

2. A sewing bag contains 9 gold and 8 black buttons. How many gold buttons need to be added to the sewing bag so that there are 60% gold buttons?

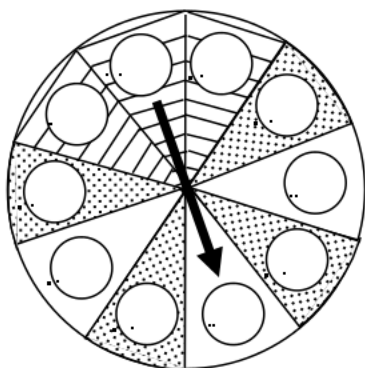
3. The word "school" is spelled in scrabble tiles. If one letter is chosen at random, what is the probability that it is an "o"?

1. For breakfast, Harper can choose from oatmeal or scrambled eggs. She can drink milk, orange juice, apple juice, or hot chocolate. Make a list, table, or draw a tree diagram to represent the sample space.

2. What is the probability of rolling an even number on a six sided number cube?

3. What is the probability of drawing a 3, 5, or 7 in a 52 card deck of playing cards?

1. The spinner is spun twice. What is the probability of spinning a 7 and then landing on stripes?



2. A deck of game cards each have a different shape on them. 12 have a diamond, 8 have a square, 5 have a circle. What is the probability of drawing a circle, replacing it and drawing a diamond?

3. The letters of the word "classroom" are placed in a bag. What is the probability of randomly drawing an "m" on the first draw, replacing it, and then randomly drawing a "s" on the second draw?

1. In a game, they toss a coin that can land either heads or tails and spin a spinner that can land on any of 5 equal regions. If a coin is tossed and the spinner is spun, make a list, table, or draw a tree diagram to represent the sample space.

2. Nicole played an hand held game. There were 15 questions, of which she answered 6 incorrectly. At this rate, how many questions should Nicole expect to answer incorrectly if she answers a total of 135 questions?

3. In a deck of playing cards, what is the probability of drawing a heart, replacing it, and then drawing an ace?

1. The spinner is spun twice. What is the probability of spinning an odd number and then landing on dots?

2. For Valentine's day the student council is selling roses and carnations. They also offer a choice of a balloon, bear, or chocolate. Make a list, table, or tree diagram that represents the different options.

