

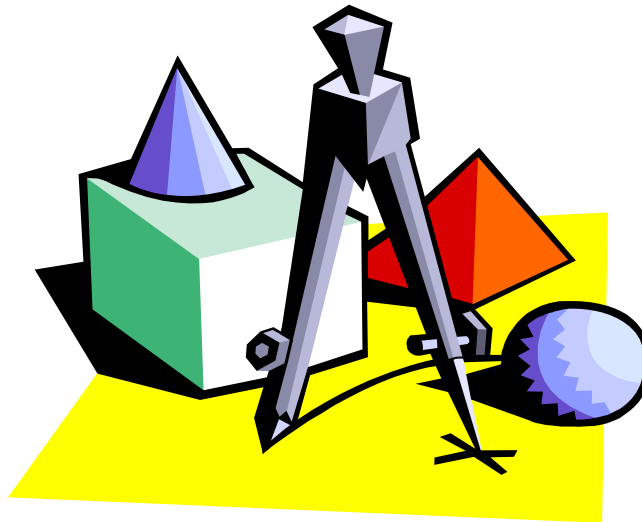
Probability and Chance

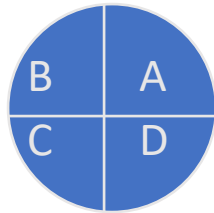


- Probability is a measure of how likely it is for an event to happen.
- We name a probability with a number from 0 to 1.
- If an event is certain to happen, then the probability of the event is 1.
- If an event is certain not to happen, then the probability of the event is 0.

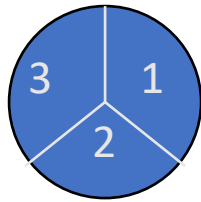
Probability

- If it is uncertain whether or not an event will happen, then its probability is some fraction between 0 and 1 (or a fraction converted to a decimal number).

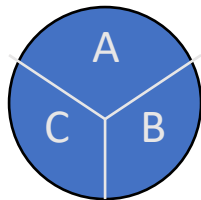




1. What is the probability that the spinner will stop on part A?



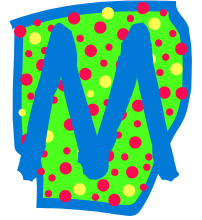
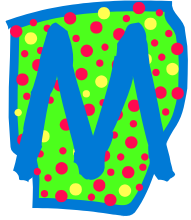
2. What is the probability that the spinner will stop on
(a) An even number?
(b) An odd number?



3. What fraction names the probability that the spinner will stop in the area marked A?

Probability Activity

- In your group, open your M&M bag and put the candy on the paper plate.
- Put ten brown M&Ms and five yellow M&Ms in the bag.
- Ask your group, what is the probability of getting a brown M&M?
- Ask your group, what is the probability of getting a yellow M&M?



- Another person in the group will then put in 8 green M&Ms and 2 blue M&Ms.
- Ask the group to predict which color you are more likely to pull out, least likely, unlikely, or equally likely to pull out.
- The last person in the group will make up his/her own problem with the M&Ms.

Probability Questions

- Lawrence is the captain of his track team. The team is deciding on a color and all eight members wrote their choice down on equal size cards. If Lawrence picks one card at random, what is the probability that he will pick blue?

blue

yellow

red

green

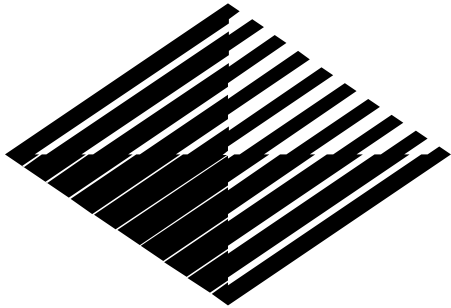
blue

blue

black

black

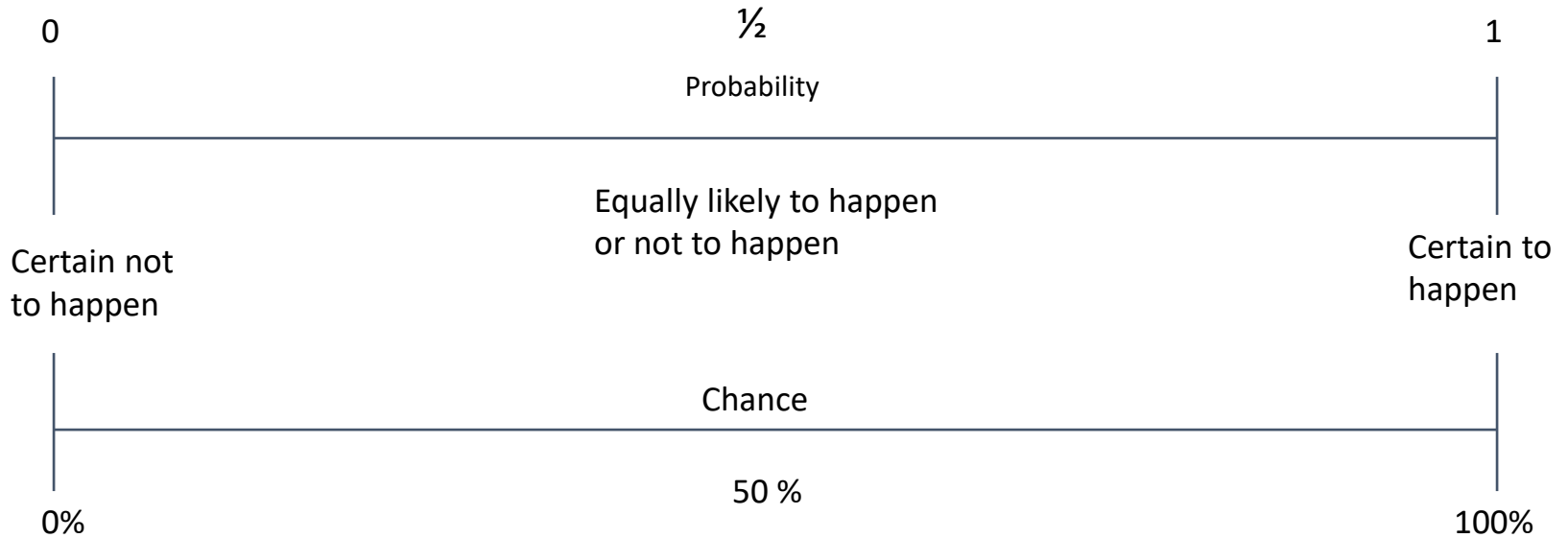




- Donald is rolling a number cube labeled 1 to 6. Which of the following is LEAST LIKELY?
 - A. an even number
 - B. an odd number
 - C. a number greater than 5

CHANCE

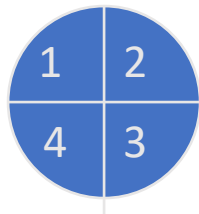
- Chance is how likely it is that something will happen. To state a chance, we use a percent.



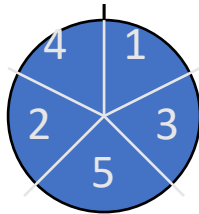
Chance



- When a meteorologist states that the chance of rain is 50%, the meteorologist is saying that it is equally likely to rain or not to rain. If the chance of rain rises to 80%, it is more likely to rain. If the chance drops to 20%, then it may rain, but it probably will not rain.

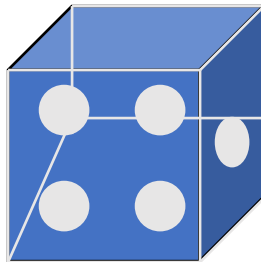


1. What is the chance of spinning a number greater than 1?



2. What is the chance of spinning a 4?

3. What is the chance that the spinner will stop on an odd number?



4. What is the chance of rolling an even number with one toss of on number cube?