

Probability



Math 1, Unit 7

Anaheim Union High School District

Dear Student & Parent/Guardian,

In this unit students will be studying probability, or the chance of an event occurring, by flipping coins, rolling number cubes, tossing paper into trash cans from different distances, making a human spinner, flipping cups and even making our own number cubes to try to beat a classmate's number cube!

We will also learn how to organize the theoretical outcomes of these events in frequency tables, two-way tables and tree diagrams to make predictions about future events.

-AUHSD Math Teachers

Why are we studying this?

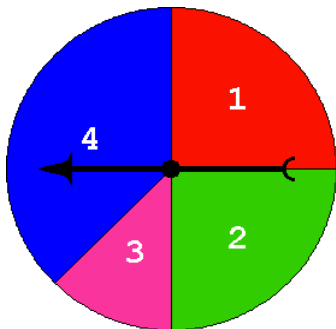
Probability helps us to predict the likelihood of a real-world event occurring, which could be modeled by such as flipping a coin, or rolling a number cube. We will learn that probability is a number between 0 and 1, inclusive, and what it means when the probability is equal to 0, 1, or a percent in between. We will learn how to develop mathematical models to find the probabilities of various events and investigate if our model worked or why there might be a discrepancy.



You are shooting three paper trash balls from a distance of 3cm, and then 150 cm, 250 cm, 350 cm and 6 meters. Note that your eyes must be CLOSED when shooting from 6 meters.



Use the words impossible, unlikely, likely or certain to predict how likely it is that you will make all three baskets from each distance.

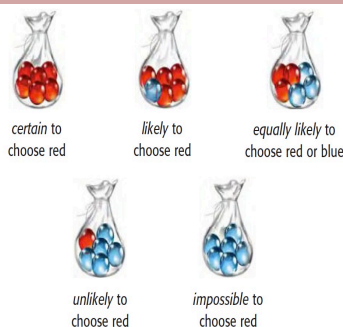


Sample Question
Is the probability of the spinner landing on each number equally likely?

A Note About Homework

Homework in this unit will contain a spiral review of topics previously learned in Math 1 as well as topics concurrent with the unit of instruction. Topics include:

- Proportional Reasoning
- Ratios
- Probability



Real-World Application

Approximately 10% of the population has type B blood. A person with type B blood can donate blood to a person with type B or type AB and can receive blood from a person with type B or type O.

If 20 donors came to a particular blood center in one day, what is the probability of at least 4 type B blood donors?

Essential Questions Addressed in this Unit

- What is probability?
- Are all outcomes equally likely?
- How can probability be used to predict frequency?
- How can data allow us to come up with a probability model?



probability of getting a seven = 0%