

Grade: 8 Math
Benchmark #: 8.4.1.K3
Probability

Mastery Check
2

State Language:

Finds the probability of a compound event composed of two independent events in an experiment, simulation, or situation.

Student Friendly Language:

Find the probability of a situation with two events.

Concept (Students will know):

- The definition of probability
- The definition of theoretical probability and how it applies to a probability problem.
- The definition of experimental probability.
- The difference between theoretical and experimental probability.
- How to find the experimental probability of a situation.
- How to find the theoretical probability of an event.

Skills (Students will do):

- Define probability, theoretical, and experimental probability
- Find the theoretical probability of an event, given all the facts
- Find the experimental probability of an experiment.
- Differentiate between when you need to find the theoretical and experimental probability.
- Roll a dice and figure out the probability of getting a 1 on one dice and a 2 on another.
- Figure the theoretical probability of an event, then do the experiment and find the experimental probability.

DOK Level:

2

Big Ideas:

Being able to find the experimental and theoretical probability of an event

Essential Questions:

- What is the definition of experimental probability and theoretical probability?
- What is the difference between experimental and theoretical probability?
- How do you find the theoretical probability of an event, given the information you need?
- How do you find the experimental probability when you do the experiment.?

Core Materials

Glencoe Pre-Algebra book

Supplemental Materials:

Glencoe Resource materials
Study Island
Other technologies
Dice, spinners, coins, Bags of marbles, etc.
Anything you can do an experiment with.

Teaching Strategies:

Do experiments to show how the theoretical probability compares to the experimental probability.
Give situations in which you can teach how to put the info into the theoretical probability formula.
Do experiments

Mastery Check Items: