

15.1

Outcomes & Events

Do Now

Write the ratio in simplest form.



- baseballs to footballs
- sneakers to ballet slippers
- footballs to total pieces of equipment
- sneakers to total number of shoes
- green beads to blue beads
- red beads:green beads
- green beads:total number of beads



Learning Target:

I can identify and count the outcomes of experiments.

Key Ideas:

experiment: an _____ or a _____ that has varying results.

outcomes: the _____ of an experiment.

event: collection of _____ or _____ outcomes.

favorable outcomes: the outcomes of a _____.

Learning Target:

I can identify and count the outcomes of experiments.

Example:

randomly selecting a marble from a group of marbles is an _____.

each marble in the group is an _____.

selecting a green marble from the group is an _____.



When an experiment is performed at random or randomly, all of the possible outcomes are equally likely.

Identifying Outcomes



- What are the possible outcomes?
- What are the favorable outcomes of rolling an even number?
- What are the favorable outcomes of rolling a number greater than 5?

Practice

- You randomly choose a letter from a hat that contains the letters A through K.

- What are the possible outcomes?



- What are the favorable outcomes of choosing a vowel?

Counting Outcomes



You spin the spinner.

- How many possible outcomes are there?
- In how many ways can spinning red occur?
- In how many ways can spinning *not* purple occur? What are the favorable ways of spinning *not* purple?

Practice



You randomly choose a marble.

- How many possible outcomes are there?
- In how many ways can choosing blue occur?
- In how many ways can choosing *not* yellow occur? What are the favorable ways of choosing *not* yellow?