

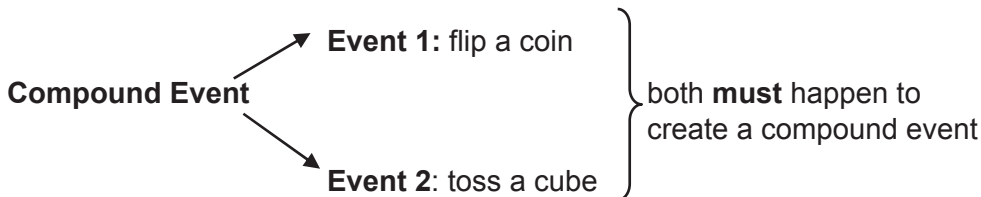
LESSON
5-3

Experimental Probability of Compound Events

Success for English Learners

Problem

A **compound event** includes 2 or more simple events.



A coin is flipped **and** a number cube is tossed 50 times.



The results are shown in the table below.

	1	2	3	4	5	6
Heads	4	3	6	4	4	5
Tails	3	5	2	5	3	6

2 possible outcomes from the coin

This is an outcome for the number cube *and* the coin. The outcome was **Heads and 2** a total of **3 times** out of 50.

6 possible outcomes from the number cube

- What is the experimental probability that the next outcome will be Tails *and* 4?
 - Look in the table to find the number for Tails *and* 4. _____
 - Write that number over the total number of trials: _____
- What is the experimental probability that the next outcome will **not** be Heads?
 - Look in the table to find all the outcomes for heads. Add the numbers to find the total.

 - In a fraction, write that number over the total number of trials.

 - Subtract that fraction from 1 to find the outcomes for “**not** heads.”
