

## Chapter 11 Probability

### Dear Family,

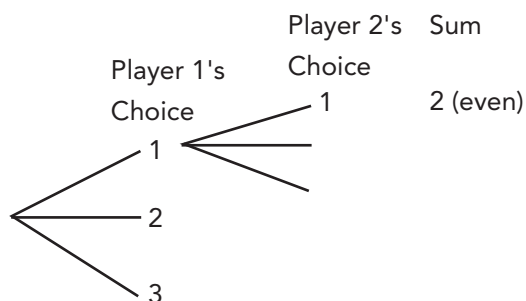
In this chapter, your student will learn about probability. Some of the skills your student will practice are:

- understanding compound events
- representing compound events with a diagram or a list
- classifying events as independent or dependent
- using multiplication and addition laws of probability to find the probability of independent and dependent events

### Activity

Students will use probability concepts in many different areas. You can help your student explore probability with this activity.

- You and your student will play and analyze a game called 1-2-3. On the count of three, each player holds up one, two, or three fingers. If the sum of the fingers held up is even, you win. If the sum is odd, your student wins. Play the game several times.
- Discuss with your student whether the game consists of dependent or independent events.
- Copy and complete the tree diagram showing all the possible outcomes of one round of the game.



- Find the probability of getting an even sum in one round of the game.

### Vocabulary to Practice

A **compound event** is made up of two or more simple events that occur either at the same time or sequentially.

A **tree diagram** shows the possible outcomes of an event on branches.

Two events are **independent** if the outcome of one event does not affect the probability of the other event.

When the occurrence of one event affects the probability of another event, the events are **dependent**.



#### Online Resources

For additional Parent Resources [my.hrw.com](http://my.hrw.com)