

Name: \_\_\_\_\_

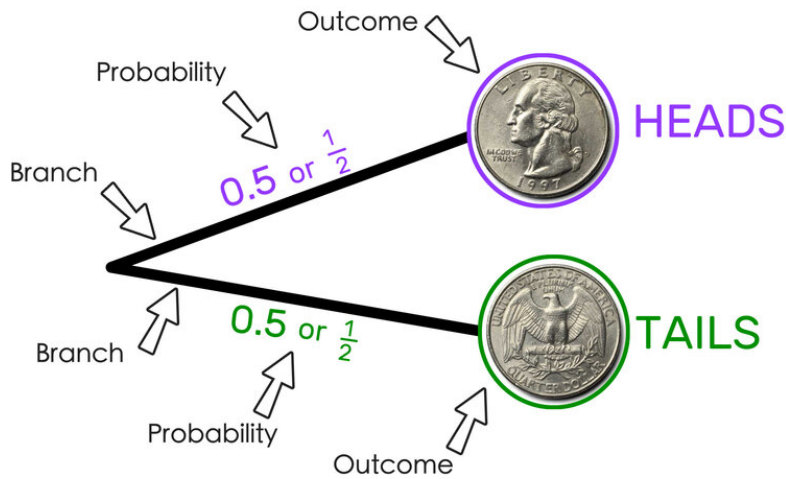
# Lesson Guide

This lesson guide accompanies the following video lesson:

## Intro to Tree Diagrams

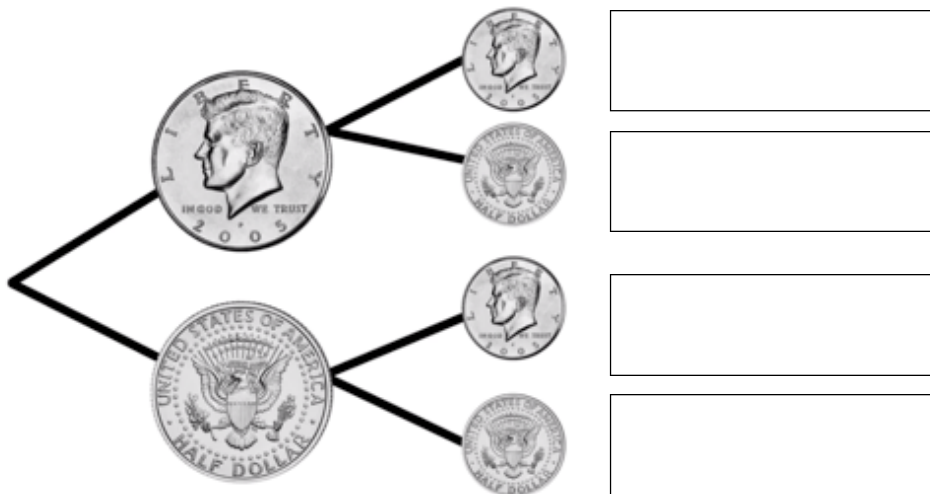
**Key Question:** How can we use tree diagrams to find possible outcomes?

### > Example 01: Flipping a Coin Once



There are \_\_\_\_\_ possible outcomes.

### > Example 02: Flipping a Coin Twice in a Row



There are \_\_\_\_\_ possible outcomes.

➤ **Example 03:** How Many Different Combinations

In Josh's wardrobe, he has the following outfit choices:

- 3 Tops: 1 Gray Hoodie, 1 Blue T-Shirt, 1 Plaid Dress Shirt
- 2 Jeans: 1 Blue Pair, 1 Black Pair
- 3 Sneakers: 1 Running, 1 Casual, 1 High-Tops

**Directions:** Create a tree diagram to find out how many outfit combinations exist involving one top, one pair of jeans, and one pair sneakers.

(Note: the first part of the tree diagram has already been started below!)



There are \_\_\_\_\_ total outfit combinations.