

Chapter 11 Wrap It Up!

This worksheet will help you with the Chapter 11 Wrap It Up! on page 439.

1. With a partner, create a stick game by following these steps.
 - Collect four sticks, such as tongue depressors or craft sticks.
 - Decorate one side of each stick differently.

2. Play the game by following the steps below.

- Before starting, decide how many turns each player will have.
- Take turns dropping the four sticks on the ground.
- Record the scores in the table below.
- Use the scoring guide on the right.

Outcome	Score
Four decorated sides up	5 points
Three decorated sides up and one down	2 points
Two decorated sides up and two down	1 point
One decorated side up and three down	2 points
Four decorated sides down	5 points

Name	Scores	Total

Name: _____

Date: _____

3. Analyze the game.

a) Compare the theoretical probability of each outcome to the scoring guide.

Note: Refer to the section 11.1 Math Link for the theoretical probability.

Outcome	Theoretical Probability	Score	Your Suggested Scoring
Four decorated sides up		5 points	
Three decorated sides up and one down		2 points	
Two decorated sides up and two down		1 point	
One decorated side up and three down		2 points	
Four decorated sides down		5 points	

b) Is the scoring method fair? Explain your reasoning.

c) How close is the scoring system to your theoretical results?

d) How close are your experimental results to your theoretical results?
