

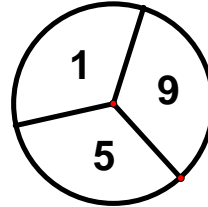
Alg Prob 2.1a

Spinner Games

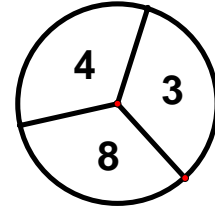
The Spinner Game

Suppose each player spins the spinner once. Player A using spinner A, and Player B using spinner B. The one with the larger number wins.

1) Predict whether or not this is a fair game?



Spinner A



Spinner B

2) How many possible outcomes are there? Record them in the margin.

3) What is the probability that Player A will win?

4) What is the probability that Player B will win?

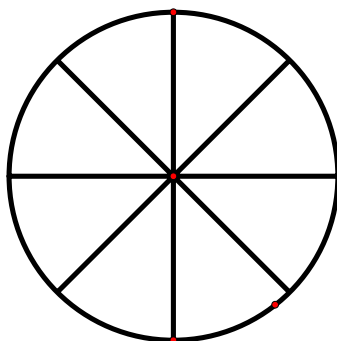
5) What is the probability of a draw (tie)?

6) If you were to play the game, your outcome would not necessarily match the probabilities above. Explain why this is true.

Creating Fair and Unfair Spinner Games

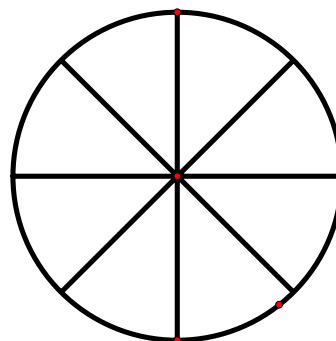
- Create a probability game for each spinner.
- Design the spinners to make one game fair and the other unfair.
- Write the rules to tell how to play each game.

Game 1 Rules



Game 1

Game 2 Rules



Game 2

- Explain the probability of winning each game and why the game is fair or unfair.

Two Spins

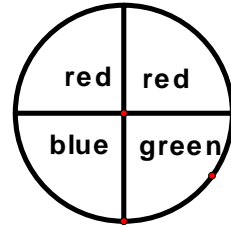
1) List all possible outcome from two spins of the spinner below.

2) What is the probability of spinning the following:

P (red, red)

P (one red and one green, in any order)

P (blue, red) Note: blue must come first



3) Extra for experts: How might you figure out the probabilities by adding or multiplying?