



Paper-Scissors-Rock Game Probability Investigation



I can represent possible outcomes in fraction format.

1. List all of the likely outcomes in a game of paper-scissors-rock.

2. What is the probability (in fraction format) that someone will use a 'paper' move?

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3. What is the probability (in fraction format) that someone will use a 'rock' move?

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4. What is the probability (in fraction format) that you will win a game of paper-scissors-rock playing against one person?

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5. What is the probability (in fraction format) that you will win a game of paper-scissors-rock when versing two people?

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6. With a partner, play 10 games of paper-scissors-rock and record each win as a tally mark.

Player 1	Player 2

7. Write your 'wins' as a fraction.

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8. Was the actual outcome different to the probability of winning?

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Paper-Scissors-Rock Game

Probability Investigation **Answers**

1. List all of the likely outcomes in a game of paper-scissors-rock.

Paper/Scissors Paper/Rock Rock/Scissors Scissors/Scissors Paper/Paper
Scissors/Paper Rock/Paper Scissors/Rock Rock/Rock _____

2. What is the probability (in fraction format) that someone will use a 'paper' move?

$$\frac{1}{3}$$

3. What is the probability (in fraction format) that someone will use a 'rock' move?

$$\frac{1}{3}$$

4. What is the probability (in fraction format) that you will win a game of paper-scissors-rock playing against one person?

$$\frac{1}{2}$$

5. What is the probability (in fraction format) that you will win a game of paper-scissors-rock when versing two people?

$$\frac{1}{3}$$

6. With a partner, play 10 games of paper-scissors-rock and record each win as a tally mark.

Player 1	Player 2
Child's own answer.	

7. Write your 'wins' as a fraction.

Child's own answer.

8. Was the actual outcome different to the probability of winning?

Child's own answer.