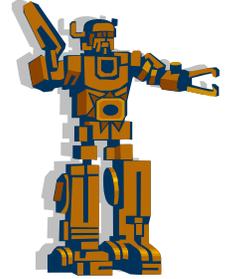


Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Rock, Paper Scissors Probability Activity – RPS Probability Worksheet – Example Answers

The RPS (Rock Paper Scissor) robot has the ability to throw a rock, paper, or scissor after the touch sensor is pressed. Can you guess which will it be?!



### Directions

Make a tally of how many times a rock, paper, or scissor is thrown by the robot.

Trial #	Rock	Paper	Scissor
1	1	0	0
2	0	1	0
3	0	1	0
4	0	0	1
5	1	0	0
6	0	0	1
7	0	0	1
8	1	0	0
9	0	1	0
10	0	0	1
<b>Total</b>	<b>3</b>	<b>3</b>	<b>4</b>

Notice that there are no patterns and you will NOT be able to guess whether the RPS robot will throw either a rock, paper, or scissor. This is because the robot *randomly* generates which one it will throw.

### Analysis

1. What is the probability that the RPS robot will shoot Rock?  $\frac{1}{3}$
2. What is the probability that the RPS robot will shoot Scissor?  $\frac{1}{3}$
3. What is the probability that the RPS robot will shoot Paper?  $\frac{1}{3}$
4. You are a risk engineer working for Firm Rock. There are other risk engineers that work for Firm Scissor and Firm Paper. A stadium needs to be built, so the stadium owner notifies all three firms. Using what you have learned on probability, please answer:
  - What is the probability that Firm Rock will get the job?  $\frac{1}{3}$
  - What is the probability that Firm Scissor will get the job?  $\frac{1}{3}$
  - What is the probability that Firm Paper will get the job?  $\frac{1}{3}$