![C:\Users\yowell\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\2ZBOBS2T\MC900355677[1].wmf]()**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** |
| **Total** | **3** | **3** | **4** |

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? **1/3**
2. What is the probability that the RPS robot will shoot Scissor? **1/3**
3. What is the probability that the RPS robot will shoot Paper? **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? **1/3**
* What is the probability that Firm Scissor will get the job? **1/3**
* What is the probability that Firm Paper will get the job? **1/3**