C:\Users\yowell\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\2ZBOBS2T\MC900355677[1].wmf**Rock, Paper Scissors Probability Activity –   
RPS Probability Worksheet**

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** |  |  |  |
| **2** |  |  |  |
| **3** |  |  |  |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |
| **8** |  |  |  |
| **9** |  |  |  |
| **10** |  |  |  |
| **Total** |  |  |  |

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