

Marbles & Probability: 10 Trials

Lesson Title: Marble Mania

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Name: _____

Directions:

- Write the color of your marbles at the top of the chart.
- For each color, record the number of times the color was selected in the 10 trials.
- Then calculate the total number of picks and record that number in the Total column.
- Next, calculate the results for each color based on your data.
- Compare it to the theoretical probability of 1 in 3.



	Color:	Color:	Color:	Total
Number of times marble was picked				
Results (# of times marble was picked divided by total # of picks)				

When finished, consider these questions:

- Did your group follow each of the five steps carefully for each trial?
- Do you believe your results are accurate?
- How do your results compare with the theoretical probability of 1 in 3?
- Are you surprised by your results? Why or why not?