



M&Ms, the WWII candy that "melts in your mouth, not in your hand," are still found in every movie theater today. If you need an excuse to grab a bag, play our fun M&Ms probability game below.

What You Need:

- A small bag of M&Ms
- Pencil
- Paper



What You Do:

You can enjoy M&Ms in six different colors: red, orange, yellow, green, blue, and brown. Start by making a guess: How many M&Ms total do you think are in your bag? Write it down.

COLOR	QUANTITY
red	
orange	
yellow	
green	
blue	
brown	

Now, open your bag but don't peek inside! Take one M&M out at a time and record its color on the lines below. Repeat this until you have recorded 10 colors on the spaces below. Make sure you place the M&Ms back in the bag after you take them out.



1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

7 \_\_\_\_\_

8 \_\_\_\_\_

9 \_\_\_\_\_

10 \_\_\_\_\_

Based on your data above, maybe you've changed your mind about your predictions at the beginning. Using this data, make new predictions about the colors of the M&Ms in your bag.

COLOR	QUANTITY
red	
orange	
yellow	
green	
blue	
brown	



Answer the following questions on a separate sheet of paper, or on the back of this worksheet.

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Dump out your bag and count up the actual total number of M&Ms. Record how many of each color are in your bag. How close were your predictions?



Based on this data, write the probability of picking each color.  
 Example: If there are 5 red M&Ms in a bag with 30 M&Ms total, then the probability of getting a red one is 5 out of 30, or 1 in 6; also written:  $5/30$ , or  $1/6$ .