

STUDY LINK
7•3

Color Tiles



There are 5 blue, 2 red, 1 yellow, and 2 green tiles in a bag.

- Without looking, Maren picks a tile from the bag. Which of these best describes her chances of picking a blue tile?
 - likely
 - 50-50 chance
 - unlikely
 - very unlikely
- Which of these best describes her chances of picking a yellow tile?
 - certain
 - likely
 - 50-50 chance
 - very unlikely
- Find the probability of each event. Then make up an event and find the probability.

Event	Favorable Outcomes	Possible Outcomes	Probability
Pick a blue tile	5	10	$\frac{5}{10}$
Pick a red tile		10	$\frac{\square}{10}$
Pick a yellow tile		10	$\frac{\square}{10}$
Pick a green tile		10	$\frac{\square}{10}$
Pick a blue, red, or green tile		10	$\frac{\square}{10}$
		10	$\frac{\square}{10}$

- Suppose you picked a color tile from the bag 10 times. After each pick, you put the tile back in the bag. How many times would you expect to pick a blue tile? _____ times

Try the experiment. Compare your prediction with the actual results.

Practice

5. $74 * 8 =$ _____

6. _____ = $4 * 987$

7. _____ = $65 * 26$

8. $35 * 462 =$ _____