

**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?
- Which of these best describes her chances of picking a yellow tile?

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|--|---|
| <p>(A) likely</p> <p>(B) 50-50 chance</p> <p>(C) unlikely</p> <p>(D) very unlikely</p> | <p>(A) certain</p> <p>(B) likely</p> <p>(C) 50-50 chance</p> <p>(D) very unlikely</p> |
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- 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**

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| <p>5. <math>74 * 8 =</math> _____</p> <p>7. _____ = <math>65 * 26</math></p> | <p>6. _____ = <math>4 * 987</math></p> <p>8. <math>35 * 462 =</math> _____</p> |
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