



**Got It?** Do this problem to find out.

a. 6

- a. Find the total number of outcomes when choosing from bike helmets that come in three colors and two styles.

**Got It?** Do this problem to find out.

- b. Two number cubes are rolled. What is the probability that the sum of the numbers on the cubes is 12? How likely is it that the sum would be 12?

Show  
your  
work.

b.  $\frac{1}{36}$  or about 3%;  
very unlikely

# Guided Practice



1. Use the Fundamental Counting Principle to find the number of outcomes from tossing a quarter, a dime, and a nickel. (Example 1)

**8**

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2. How many outcomes are possible when rolling a number cube and picking a cube from 4 different colored cubes? (Example 1)

**24**

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3. Find the number of different outfits that can be made from 3 sweaters, 4 blouses, and 6 skirts. Then find the probability of randomly selecting a particular sweater-blouse-skirt outfit. Is the probability of this event likely or unlikely? (Examples 2–4)

**72;  $\frac{1}{72}$  or about 1.4%; unlikely**

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