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**LESSON 12  Meaning of Multiplication**

**Multiplication** is like repeated addition. You can use an **array** or other model to show multiplication.

Cody, Ryan, and Hiro each ate 5 crackers. How many crackers did they eat in all?

This array shows 3 rows of 5 crackers.

\[
\begin{array}{cccccc}
\circ & \circ & \circ & \circ & \circ \\
\circ & \circ & \circ & \circ & \circ \\
\circ & \circ & \circ & \circ & \circ \\
\end{array}
\]

5 + 5 + 5 = 3 rows of 5  
3 \times 5 = 15  

They ate 15 crackers in all.

---

**Factors** are the numbers you multiply to get a **product**.

\[
\begin{align*}
2 & \leftarrow \text{Factor} \\
7 & \leftarrow \text{Factor} \\
14 & \leftarrow \text{Product}
\end{align*}
\]

---

**Read each problem. Circle the letter of the best answer.**

**1** Which number sentence shows the model below?

**A** 3 \times 5 = \square  
**B** 3 \times 6 = \square

The model shows 3 rows of 6 shapes each. This is the same as 3 \times 6 = \square. The correct answer is **B**.

**2** Which multiplication expression is modeled below?

**A** 1 \times 7  
**B** 1 \times 8

**3** Sela bought 6 packs of gum. Each pack had 5 pieces of gum. Which model shows the total pieces of gum Sela bought?

**A**  
**B**  
**C**  
**D**
Read each problem. Write your answers.

4 Nick built 5 toy wagons. He put 4 wheels on each wagon.

A Draw a picture to model the total number of wheels Nick put on these wagons.

B Write a number sentence to show the total number of wheels Nick put on these wagons.

Answer: ______________________________

5 Mary, Julia, and Vicki each collected 8 half-dollar coins.

A Draw a picture to model the total number of half-dollar coins Mary, Julia, and Vicki have.

B How many half-dollar coins are there in all?

Answer: ______________________________

C Explain why your answer is correct.

___________________________________________________________________________________
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