

**Key Idea**

Multiplication and division describe real situations.

# Multiplication and Division Stories

 **WARM UP**

- |                            |                            |
|----------------------------|----------------------------|
| 1. $15 \div 3$<br><b>5</b> | 2. $20 \div 5$<br><b>4</b> |
| 3. $28 \div 4$<br><b>7</b> | 4. $16 \div 2$<br><b>8</b> |
| 5. $42 \div 7$<br><b>6</b> | 6. $72 \div 9$<br><b>8</b> |

**LEARN****How can you write a story?**

Suzette is making a quilt. The pattern she is using is shown below.

**Example A**

Use Suzette's quilt to write a multiplication story for  $3 \times 5 = 15$ .

Suzette's quilt has 3 rows with 5 large squares in each row. How many large squares does it have in all?

**Example B**

Use Suzette's quilt to write a division story for  $35 \div 5 = 7$ .

Suzette has 35 tiny solid blue squares. She needs 5 tiny blue squares for each patterned square. How many patterned squares can she make with the tiny solid blue squares?

**Think It Through**

- I can **multiply** when I combine equal groups.
- I can **divide** when I need to find the number in each group.

**Talk About It**

1. Is there only one correct story for a given multiplication or division fact? Explain. **No; Sample answer: There are many stories that use the same facts.**
2. Write a story about Suzette's quilt for  $15 \div 3 = 5$  and for  $15 \div 5 = 3$ .  
**See margin.**
3. Write a multiplication story about the squares in the quilt. What number sentence would you use to solve your story?  
**See margin.**

**CHECK** 

For another example, see Set 3-10 on p. 182.

Use the data in the table to write a multiplication or division story for each number fact. Solve.

**See margin.**

1.  $6 \times 7 = 42$       2.  $10 \div 5 = 2$
3. **Number Sense** Would you need more boxes of markers or boxes of chalk to have 30 of each?

**Markers**

Art Supplies	Number in a Box
Chalk	6
Watercolors	10
Markers	5
Pencils	7

**PRACTICE**

For more practice, see Set 3-10 on p. 186.

**A Skills and Understanding**

**Reasoning** Write a multiplication or division story for each number fact. Solve. **See margin.**

4.  $2 \times 6 = 12$       5.  $24 \div 8 = 3$       6.  $5 \times 8 = 40$       7.  $32 \div 4 = 8$

**B Reasoning and Problem Solving**

Use the data in the table to write a multiplication or division story for each number fact. Solve.

**See margin.**

8.  $7 \times 9 = 63$       9.  $4 \times 8 = 32$       10.  $8 \times 9 = 72$
11.  $24 \div 3 = 8$       12.  $36 \div 4 = 9$       13.  $10 \div 1 = 10$
14. The product of two numbers is 36. Their sum is 13. What are the numbers?  
**9 and 4**
15. Tim needs 5 boards that are each 3 feet long. He has two 10-foot boards to cut them from. Will that be enough? **Yes**
16. **Writing in Math** Write two different division stories for  $28 \div 4 = 7$ . **See margin.**

Groceries	Number in a Bag
Apples	9
Bananas	4
Carrots	7
Potatoes	10
Oranges	8
Grapefruit	3

**Mixed Review and Test Prep**

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17. **Algebra** Find  $3 \times n$  when  $n = 0$ . **0**
18. Find  $56 \div 7$ .      19. Find  $18 \div 6$ .
- A. 5      B. 6      C. 7      **D. 8**      A. 2      **B. 3**      C. 4      D. 5