3.OA.1, 3.OA.3, 3.OA.5, 3.OA.8

# MY Homework

Lesson 4

**Arrays and Multiplication** 

Homework Helper



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The pumpkins in a patch are arranged in rows with an equal number in each row. How many pumpkins are in the patch?

Write an addition sentence and a multiplication sentence to show equal rows.

$$6 + 6 + 6 = 18$$

$$3 \times 6 = 18$$



The Commutative Property of Multiplication allows you to change the order of the factors to write another multiplication sentence,  $6 \times 3 = 18$ .

There are 18 pumpkins in the pumpkin patch.

### **Practice**

Write an addition sentence and a multiplication sentence to show equal rows.







**3.** 
$$3 \times 2 = 6$$

$$\times 3 = 6$$

**5.** 
$$8 \times 6 = 48$$

$$6 \times 8 =$$
 \_\_\_\_

**6.** 
$$5 \times 2 = 10$$

**5.** 
$$8 \times 6 = 48$$
  $6 \times 8 =$  **6.**  $5 \times 2 = 10$   $\times 5 = 10$ 



## **Problem Solving**

Draw an array to solve. Then write two multiplication sentences.

- **7.** Bottles of syrup are arranged in 4 rows of 7 bottles each. How many bottles of syrup are there in all?
- My Drawingl

8. A parking lot has 6 rows of 10 spaces. How many parking spaces are there altogether?

# Vocabulary Check



9. How can you use an array to show the Commutative Property?

### **Test Practice**

**10.** Which pair of number sentences represents the Commutative Property of Multiplication?

(A) 
$$3 \times 6 = 18$$
;  $2 \times 9 = 18$  (C)  $4 \times 5 = 20$ ;  $8 \times 5 = 40$ 

$$\bigcirc$$
 4 × 5 = 20; 8 × 5 = 40

$$\bigcirc$$
 6 × 7 = 42; 7 × 6 = 42

(B) 
$$6 \times 7 = 42$$
;  $7 \times 6 = 42$  (D)  $9 + 11 = 20$ ;  $11 + 9 = 20$