## MY Homework

## Lesson 4

Arrays and Multiplication

## Homework Helper <br> $\square$

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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.


$$
6+6+6=18 \quad 3 \times 6=18
$$

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.
2.

1.

$$
3 \times 4=12
$$

## Use the Commutative Property of Multiplication to find each

 missing number.3. $3 \times 2=6$
$2 \times 3=6$
4. $6 \times 4=24$
$4 \times 6=24$
5. $8 \times 6=48$
$6 \times 8=48$
6. $5 \times 2=10$
$2 \times 5=10$

## 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?
$4 \times 7=28$ bottles
$7 \times 4=28$ bottles
8. A parking lot has 6 rows of 10 spaces. How many parking spaces are there altogether?
$6 \times 10=60$ parking spaces
$10 \times 6=60$ parking spaces

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Sample arrays shown.

## Vocabulary Check (axab

9. How can you use an array to show the Commutative Property? Sample answer: Multiply the number of rows by the number of columns. Then turn the array. The product is the same.

## Test Practice

10. Which pair of number sentences represents the Commutative Property of Multiplication?
(A) $3 \times 6=18 ; 2 \times 9=18$
(C) $4 \times 5=20 ; 8 \times 5=40$
(B) $6 \times 7=42 ; 7 \times 6=42$
(D) $9+11=20 ; 11+9=20$
