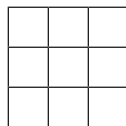


**MY Homework****Lesson 1****Multiply by 3****Homework Helper**Need help? [connectED.mcgraw-hill.com](http://connectED.mcgraw-hill.com)

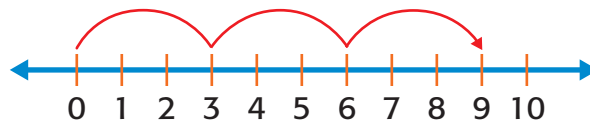
Tyra has 3 posters on each of 3 walls in her bedroom.  
How many posters does Tyra have in her room?  
Find  $3 \times 3$ .

**One Way** Use an array to model 3 rows of 3.



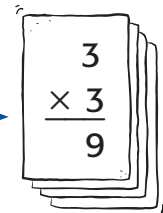
The array shows that 3 rows of 3 equals 9.

**Another Way** Use a number line.



The number line shows that 3 jumps of  $3 = 9$ .

So,  $3 \times 3 = 9$ . You can also write it like this.



Tyra has 9 posters in her room.

**Practice**

Draw an array for each. Then write two multiplication sentences.

1. 3 rows of 8

\_\_\_\_\_

\_\_\_\_\_

2. 6 rows of 3

\_\_\_\_\_

\_\_\_\_\_

**Multiply. Use the number line to skip count if needed.**



3.  $5 \times 3 =$  \_\_\_\_\_

4.  $8 \times 3 =$  \_\_\_\_\_

5.  $7 \times 3 =$  \_\_\_\_\_

6.  $4 \times 3 =$  \_\_\_\_\_

**Algebra** Find the unknown factor. Use the Commutative Property.

7.  $\blacksquare \times 3 = 30$

8.  $3 \times \blacksquare = 18$

$3 \times \blacksquare = 30$

$\blacksquare \times 3 = 18$

The unknown is \_\_\_\_\_.

The unknown is \_\_\_\_\_.



## Problem Solving

**Write a multiplication sentence with a symbol for the unknown for Exercises 9 and 10. Then solve.**

9. A box of popcorn costs \$3 at the baseball game. The vendor sells 5 boxes to people in row 22. How much money did the vendor collect for the popcorn?

\_\_\_\_\_

10. Gloria has a study guide for her math, social studies, and science classes. Each study guide is 7 pages. How many pages of study guides does Gloria have in all?

\_\_\_\_\_

**Mathematical PRACTICE**  **Make Sense of Problems**

Meredith feeds her 3 dogs twice a day. How many times does she feed the dogs in 3 days?

\_\_\_\_\_

## Test Practice

12. There are 3 rows of cars in the parking lot. Each row has 5 cars. How many cars are in the parking lot?

(A) 18 cars

(C) 12 cars

(B) 15 cars

(D) 9 cars

My Work!