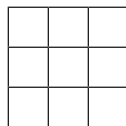


MY Homework**Lesson 1****Multiply by 3****Homework Helper**Need help? connectED.mcgraw-hill.com

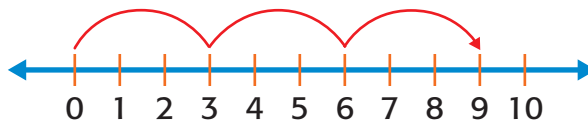
Tyra has 3 posters on each of 3 walls in her bedroom.
How many posters does Tyra have in her room?
Find 3×3 .

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



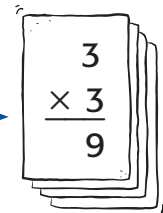
The array shows that 3 rows of 3 equals 9.

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

$$\underline{3 \times 8 = 24}$$

$$\underline{8 \times 3 = 24}$$

2. 6 rows of 3

$$\underline{6 \times 3 = 18}$$

$$\underline{3 \times 6 = 18}$$

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



3. $5 \times 3 = \underline{15}$

4. $8 \times 3 = \underline{24}$

5. $7 \times 3 = \underline{21}$

6. $4 \times 3 = \underline{12}$

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 10.

The unknown is 6.



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?

$5 \times \$3 = \blacksquare; \15

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?

$3 \times 7 = \blacksquare; 21 \text{ pages}$

11. **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?

18 times

My Work!

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