

MY Homework

Lesson 6

The Associative Property of Multiplication

Homework Helper



Need help? connectED.mcgraw-hill.com

Find $3 \times 4 \times 2$.

One Way

Multiply 3×4 first.

$$\begin{aligned} 3 \times 4 \times 2 &= (3 \times 4) \times 2 \\ &= 12 \times 2 \\ &= 24 \end{aligned}$$

So, $3 \times 4 \times 2 = 24$.

Another Way

Multiply 4×2 first.

$$\begin{aligned} 3 \times 4 \times 2 &= 3 \times (4 \times 2) \\ &= 3 \times 8 \\ &= 24 \end{aligned}$$

Practice

Multiply. Use the Associative Property.

1. $5 \times 2 \times 7 =$ _____

2. $8 \times 3 \times 2 =$ _____

3. $4 \times 2 \times 5 =$ _____

4. $5 \times 4 \times 3 =$ _____

5. $8 \times 2 \times 2 =$ _____

6. $3 \times 2 \times 5 =$ _____

Algebra Find the unknown in each equation.

7. $4 \times \underline{\hspace{2cm}} \times 8 = 64$

8. $3 \times 4 \times \underline{\hspace{2cm}} = 120$

9. $4 \times 2 \times \underline{\hspace{2cm}} = 40$

10. $6 \times 2 \times \underline{\hspace{2cm}} = 96$



Problem Solving

Mathematical
PRACTICE



Use Algebra Write an equation

to solve.

- 11.** A bus seats 4 people in a row, and there are 12 rows. How many people would fit on 2 buses?
-
- 12.** Lucy's pet snake eats 2 mice twice a week. How many mice will the snake eat in 6 weeks?
-
- 13.** Tyler delivers newspapers. He collected \$10 from each customer. He has 5 customers on each street, and he delivers to 4 different streets. How much money did Tyler collect?
-

My Work!

Vocabulary Check



Draw a line to match each property with the equation that represents it.

- 14.** Associative Property of Multiplication
- $8 \times 9 = 9 \times 8$
- 15.** Commutative Property of Multiplication
- $(4 \times 7) \times 2 = 4 \times (7 \times 2)$

Test Practice

- 16.** Emerson runs 2 miles to her friend's house and 2 miles back to her house 5 times each month. How many miles does she run?
- (A) 9 miles (C) 20 miles
(B) 10 miles (D) 50 miles