Name

# MY Homework

**Lesson 8**

**Multiplication Properties**

## Homework Helper

eHelp

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Use properties of multiplication to find $(1.7 \times 5) \times 2$.

$(1.7 \times 5) \times 2 = 1.7 \times (5 \times 2)$     **Associative Property**

$= 1.7 \times \quad 10$     **Multiply.**

$= \quad 17$     **Multiply.**

So, $(1.7 \times 5) \times 2 = 17$.

## Practice

**Use properties of multiplication to find each product mentally.**
**Show your steps and identify the properties that you used.**

**1.** $(1.6 \times 2) \times 5 =$ _____

**2.** $(27 \times 2.5) \times 4 =$ _____

**Algebra  Find each unknown.**

**3.** $\blacksquare \times 5.5 = 5.5$

$\blacksquare =$ _____

**4.** $49 \times 201 = \blacksquare \times 49$

$\blacksquare =$ _____

## Problem Solving

**5.** For a party, Shandra and James each bought 5 packages of hot dog buns that each cost $1.50. How much did the hot dog buns cost altogether?

_____

**6.** Eva needs to find: $(6 \times 1.5) \times 2$. Give the product and name the property she could use.

_____

**7.** Write a multiplication sentence to show how the Associative Property can help you solve a problem mentally. Explain.

_____

_____

**8.** **Mathematical PRACTICE 2** **Reason** Without calculating, is the equation $(1.8 \times 3) \times 2.1 = 3 \times (1.8 \times 2.1)$ true or false? Explain your reasoning.

_____

_____

## Test Practice

**9.** Which multiplication property is shown in the equation below?

$$3.1 \times (2 \times 9) = (3.1 \times 2) \times 9$$

Ⓐ Identity Property

Ⓑ Commutative Property

Ⓒ Zero Property

Ⓓ Associative Property