

# REVIEW: Distributive Property

Name \_\_\_\_\_

## Key Concept and Vocabulary

Distributive Property

$$3(4 + 6) = 3 \cdot 4 + 3 \cdot 6$$

$$4(7 - 2) = 4 \cdot 7 - 4 \cdot 2$$

Distribute.



## Visual Model

$$2(3 + 5) = 2 \cdot 3 + 2 \cdot 5$$

## Skill Examples

- $3(9 + 4) = 3 \cdot 9 + 3 \cdot 4$
- $7(10 - 3) = 7 \cdot 10 - 7 \cdot 3$
- $6 \cdot 8 + 6 \cdot 7 = 6(8 + 7)$
- $12 \cdot 9 - 12 \cdot 2 = 12(9 - 2)$
- $5(2 + 5 + 3) = 5 \cdot 2 + 5 \cdot 5 + 5 \cdot 3$

## Application Example

6. You buy 3 hot dogs for \$1.25 each and 3 sodas for \$0.75 each. Find the total cost.

$$\begin{aligned} 3(1.25) + 3(0.75) &= 3(1.25 + 0.75) \\ &= 3(2.00) \\ &= 6 \end{aligned}$$

••• The total cost is \$6.00.



## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Use the Distributive Property to rewrite the expression.

7.  $3(4 + 5) =$  \_\_\_\_\_ 8.  $5(8 - 3) =$  \_\_\_\_\_ 9.  $9(11 + 7) =$  \_\_\_\_\_

10.  $8(27 - 9) =$  \_\_\_\_\_ 11.  $6(17 - 7) =$  \_\_\_\_\_ 12.  $4(7 + 3 + 2) =$  \_\_\_\_\_

13.  $5 \cdot 7 + 5 \cdot 3 =$  \_\_\_\_\_ 14.  $2 \cdot 9 - 2 \cdot 6 =$  \_\_\_\_\_ 15.  $7 \cdot 4 + 7 \cdot 8 =$  \_\_\_\_\_

16. = +

17. = +

18. **MENTAL MATH** You buy 5 hot dogs for \$1.29 each and 5 sodas for \$0.71 each. Show how you can use mental math to find the total cost.

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19. **EXTENSION** Does the Distributive Property apply to a combination of addition *and* subtraction? Decide using the expression  $3(7 + 5 - 4)$ .

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