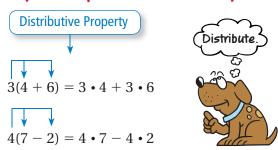
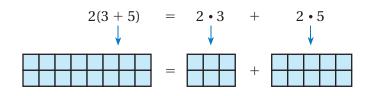
REVIEW: Distributive Property

Name ___

Key Concept and Vocabulary —



Visual Model



Skill Examples

1.
$$3(9+4)=3 \cdot 9 + 3 \cdot 4$$

2.
$$7(10-3) = 7 \cdot 10 - 7 \cdot 3$$

3.
$$6 \cdot 8 + 6 \cdot 7 = 6(8 + 7)$$

4.
$$12 \cdot 9 - 12 \cdot 2 = 12(9 - 2)$$

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

Application Example

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

$$3(1.25) + 3(0.75) = 3(1.25 + 0.75)$$

= $3(2.00)$
= 6

The total cost is \$6.00.

PRACTICE MAKES PURR-FECT

Check your answers at BigIdeasMath.com. —

Use the Distributive Property to rewrite the expression.

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.** $7 \cdot 4 + 7 \cdot 8 =$ _____

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