REVIEW: Distributive Property

Name _____

Key Concept and Vocabulary

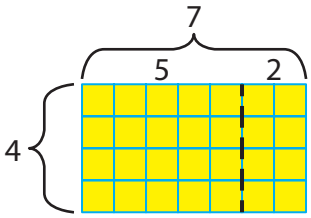
$3 \times 14 = 3 \times (10 + 4)$

$= (3 \times 10) + (3 \times 4)$

$7 \times 9 = 7 \times (10 - 1)$

$= (7 \times 10) - (7 \times 1)$

Visual Model



$4 \times 7 = 4 \times (5 + 2)$

$= (4 \times 5) + (4 \times 2)$

Skill Examples

1. $13 \times 6 = (10 + 3) \times 6$

$= (10 \times 6) + (3 \times 6)$

$= 60 + 18$

$= 78$

2. $5 \times 19 = 5 \times (20 - 1)$

$= (5 \times 20) - (5 \times 1)$

$= 100 - 5$

$= 95$

Application Example

3. A coach buys 6 blue hats and 6 red hats. Each hat costs $4. How much money does the coach spend?

$(6 + 6) \times 4 = (6 \times 4) + (6 \times 4)$

$= 24 + 24$

$= 48$

∴ The coach spends $48.

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Check your answers at BigIdeasMath.com.

Use the Distributive Property to rewrite the expression.

4. $3 \times (10 + 2)$
$(3 \times 10) + (3 \times 2)$

5. $(10 - 3) \times 7$
$(10 \times 7) - (3 \times 7)$

6. $6 \times (10 + 10 + 4)$
$(6 \times 10) + (6 \times 10) + (6 \times 4)$

Use the Distributive Property to find the product.

7. $8 \times 12 =$ 96

8. $11 \times 7 =$ 77

9. $3 \times 15 =$ 45

10. $18 \times 6 =$ 108

11. $4 \times 23 =$ 92

12. $9 \times 19 =$ 171

13. $5 \times 16 =$ 80

14. $29 \times 2 =$ 58

15. $8 \times 13 =$ 104

16. **BAKING** You have 3 packages of blueberry muffin mix and 2 packages of wild berry muffin mix. Each package makes 12 muffins. How many muffins can you bake?

60 muffins