

3.3 Practice A

Tell which property the statement illustrates.

- $3 + 5 = 5 + 3$
- $12 + 0 = 12$
- $6 \cdot 7 = 7 \cdot 6$
- $8 \cdot (10 \cdot 7) = (8 \cdot 10) \cdot 7$
- $17 \cdot 1 = 17$
- $8 + (7 + 5) = (8 + 7) + 5$

Simplify the expression. Explain each step.

- $2 + (a + 8)$
- $7(4y)$
- $(8e) \cdot 1$
- $(2x) \cdot 5$
- $(0 + c) + 12$
- $7 \cdot x \cdot 5$

Copy and complete the statement using the specified property.

- Commutative Property of Addition: $a + 7 = \underline{\quad?}$
- Commutative Property of Multiplication: $12 \cdot 5 = \underline{\quad?}$
- Associative Property of Addition: $6 + (9 + 7) = \underline{\quad?}$
- Associative Property of Multiplication: $2 \cdot (5 \cdot 7) = \underline{\quad?}$
- Describe and correct the error made in simplifying the expression.

\times	$54 \cdot 1 = 1$ Multiplication Property of One
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Use the Distributive Property to simplify the expression.

- $4(x + 6)$
- $7(2y + 8)$
- $6(4 + n)$
- $8(c - 5)$
- $9(e - 4)$
- $7(3 + x + 4)$