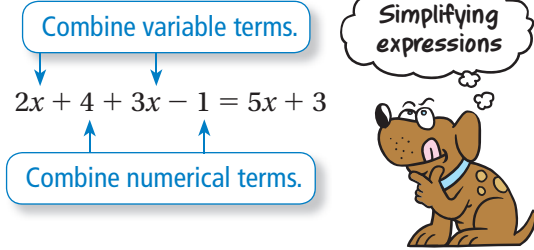


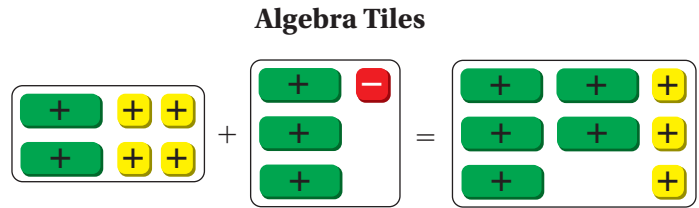
REVIEW: Simplifying Algebraic Expressions

Name _____

Key Concept and Vocabulary



Visual Model



Skill Examples

- $2x + 5x = 7x$
- $1 + n + 4 = n + 5$
- $(2x + 3) - (x + 2) = x + 1$
- $2(y - 1) + 3(y + 2) = 5y + 4$

Application Example

- The original cost of a shirt is x dollars. The shirt is on sale for 30% off. Write a simplified expression for the sale price.



$$x - 0.3x = 0.7x$$

- The sale price is $0.7x$.



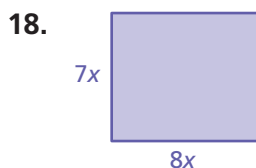
PRACTICE MAKES PURR-FECT®

Check your answers at BigIdeasMath.com.

Simplify the expression. (Remove parentheses and combine like terms.)

- $4x + 6x = \underline{10x}$
- $9x + 3 - 6x - 2 = \underline{3x + 1}$
- $7m - 2m + 5m = \underline{10m}$
- $3x + 6 - x = \underline{2x + 6}$
- $(x + 6) - (x + 6) = \underline{0}$
- $(5x + 4) - 2(x + 1) = \underline{3x + 2}$
- $3n + 5 - 2n = \underline{n + 5}$
- $3(x + 2) = \underline{3x + 6}$
- $2 - (x + 1) = \underline{1 - x}$
- $5 - (1 - n) = \underline{n + 4}$
- $(4x - 2) + 3(x + 1) = \underline{7x + 1}$
- $5(x + 2) - 2(x + 2) = \underline{3x + 6}$

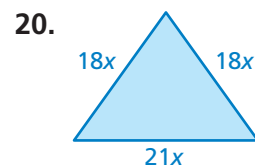
Write a simplified expression for the perimeter of the rectangle or triangle.



Perimeter = $\underline{30x}$



Perimeter = $\underline{28n}$



Perimeter = $\underline{57x}$

- The original cost of a cell phone is x dollars. The phone is on sale for 35% off. Write a simplified expression for the sale cost. $\underline{0.65x}$

