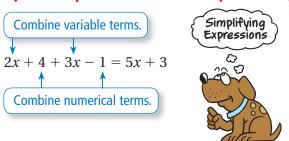
REVIEW: Simplifyng Expressions

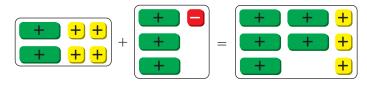
Name _____

Key Concept and Vocabulary -



Visual Model

Algebra Tiles



Skill Examples

1.
$$2x + 5x = 7x$$

2.
$$1 + n + 4 = n + 5$$

3.
$$(2x + 3) - (x + 2) = x + 1$$

4.
$$2(y-1) + 3(y+2) = 5y + 4$$

Application Example

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



$$x - 0.3x = 0.7x$$

The sale cost is 0.7x.

PRACTICE MAKES PURR-FECT

Check your answers at BigIdeasMath.com.

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

6.
$$4x + 6x =$$

8.
$$9x + 3 - 6x - 2 =$$

10.
$$7m - 2m + 5m =$$

12.
$$(3x + 6) - x =$$

14.
$$(x+6) - (x+6) =$$

16.
$$(5x + 4) - 2(x + 1) =$$

7.
$$3n + 5 - 2n =$$

9.
$$3(x+2) =$$

11.
$$2 - (x + 1) =$$

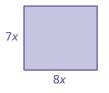
13.
$$5 - (1 - n) =$$

15.
$$(4x-2) + 3(x+1) =$$

17.
$$5(x+2)-2(x+2)=$$

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

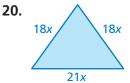
18.



Perimeter =



Perimeter = _____



Perimeter = ____

21. 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.

