

Determine Using the Algebra Tiles How the Commutative Property Can Be Used To Combine Like Terms.

Draw the Algebra Tiles

$$5 - 3$$

$$5 + (-3)$$

$$(-3) + 5$$

Are the Numerical Expressions Equivalent? _____

Draw the Algebra Tiles

$$3x - 2x$$

$$3x + (-2x)$$

$$(-2x) + 3x$$

Are the Algebraic Expressions Equivalent? _____

Combine the Like Terms by Re-Organizing the Terms

1. $6x + 7 - 2x - 2$

2. $5x - 3 + 8x + 3 - 4x + 6y$

$$3. 4(x+5) - 3x$$

$$4. 5(2x-10) + 30$$

$$5. 6(2x-4y) - 5x + 10y$$

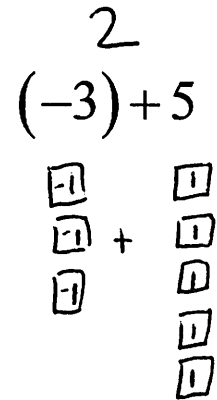
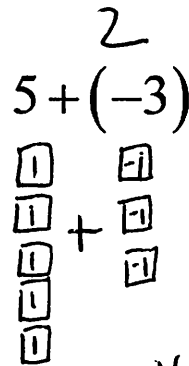
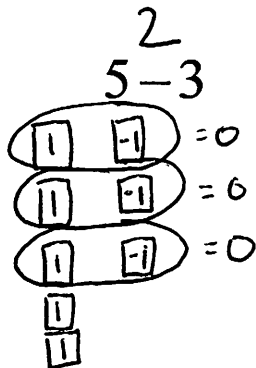
$$6. 2a - 8b + 5 + 2(5a + 6b - 2)$$

$$7. 4(2a-7b) + 3(3a-7) + 5a + 2(7-2b)$$



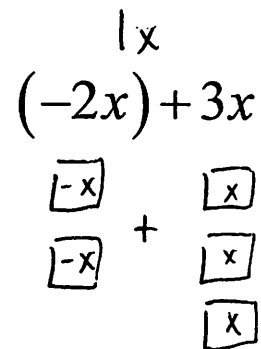
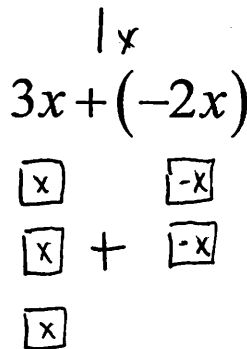
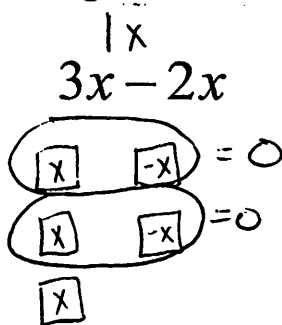
Determine Using the Algebra Tiles How the Commutative Property Can Be Used To Combine Like Terms.

Draw the Algebra Tiles



Are the Numerical Expressions Equivalent? Yes

Draw the Algebra Tiles



Are the Algebraic Expressions Equivalent? Yes

Combine the Like Terms by Re-Organizing the Terms

1. $6x + 7 - 2x - 2$

$6x + 7 + (-2x) + (-2)$

$6x + (-2x) + 7 + (-2)$

$4x + 5$

2. $(5x) \triangle (-3) + (8x) \triangle (+3) \triangle (-4x) + (6y)$

$9x + 6y$

$$3. \quad 4(x+5) - 3x$$

$$\boxed{4x} + 20 - \boxed{3x}$$

$$x + 20$$

$$4. \quad 5(2x-10) + 30$$

$$10x - \underline{50} + \underline{30}$$

$$10x - 20$$

$$5. \quad 6(2x-4y) - 5x + 10y$$

$$\boxed{12x} - \boxed{24y} - \boxed{5x} + \boxed{10y}$$

$$7x - 14y$$

$$6. \quad 2a - 8b + 5 + 2(5a + 6b - 2)$$

$$\boxed{2a} - \boxed{8b} + \triangle 5 + \boxed{10a} + \boxed{12b} - \triangle 4$$

$$12a + 4b + 1$$

$$7. \quad 4(2a-7b) + 3(3a-7) + 5a + 2(7-2b)$$

$$\boxed{8a} - \boxed{28b} + \boxed{9a} - \underline{21} + \boxed{5a} + \underline{14} - \boxed{4b}$$

$$22a - 32b - 7$$