

1. Give an example using the numbers 5 and 4 to show the Commutative Property.

2. Give an example using the numbers 10, 11, and 12 to show the Associative Property.

3. Find the missing term.  $8.4(1.5 + 2.3x) = 12.6 + \underline{\hspace{2cm}}$

**Simplify each expression by combining like terms.**

4. $-5x + 9x$	5. $3(5x - 3) + 2x$	6. $-3a + 6b + 2a - 8b + 5b$
7. $2x^3 + 6x^2 - 4x$	8. $-4(2x - 5y) + 4x - 7y$	9. $2(2x - 5) - (-3x - 5)$

10. Jessica attempted to simplify the following expression. Is she correct? If not, identify where Jessica made her mistake and simplify the expression correctly.

$$3(2x - 4) + 5(2x - 6) =$$

$$6x - 12 + 10x - 30 =$$

$$6x + 10x - 12 - 30 =$$

$$16x^2 - 42$$

1. Give an example using the numbers 5 and 4 to show the Commutative Property.

$$4 \cdot 5 = 5 \cdot 4$$

2. Give an example using the numbers 10, 11, and 12 to show the Associative Property.

$$(10 + 11) + 12 = 10 + (11 + 12)$$

3. Find the missing term.  $8.4(1.5 + 2.3x) = 12.6 + \underline{19.32x}$

Simplify each expression by combining like terms.

<p>4. <math>-5x + 9x</math></p> $4x$	<p>5. <math>3(5x - 3) + 2x</math></p> $15x - 9 + 2x$ $17x$	<p>6. <math>-3a + 6b + 2a - 8b + 5b</math></p> $-a + 3b$
<p>7. <math>2x^3 + 6x^2 - 4x</math></p> $2x^3 + 6x^2 - 4x$	<p>8. <math>-4(2x - 5y) + 4x - 7y</math></p> $-8x + 20y + 4x - 7y$ $-4x + 13y$	<p>9. <math>2(2x - 5) - 1(-3x - 5)</math></p> $4x - 10 + 3x + 5$ $7x - 5$

10. Jessica attempted to simplify the following expression. Is she correct? If not, identify where Jessica made her mistake and simplify the expression correctly.

$$3(2x - 4) + 5(2x - 6) =$$

$$6x - 12 + 10x - 30 =$$

$$6x + 10x - 12 - 30 =$$

$$16x^{\textcircled{2}} - 42$$

$$16x - 42$$

Distributive Prop

Commutative Prop +

Combining Like Terms