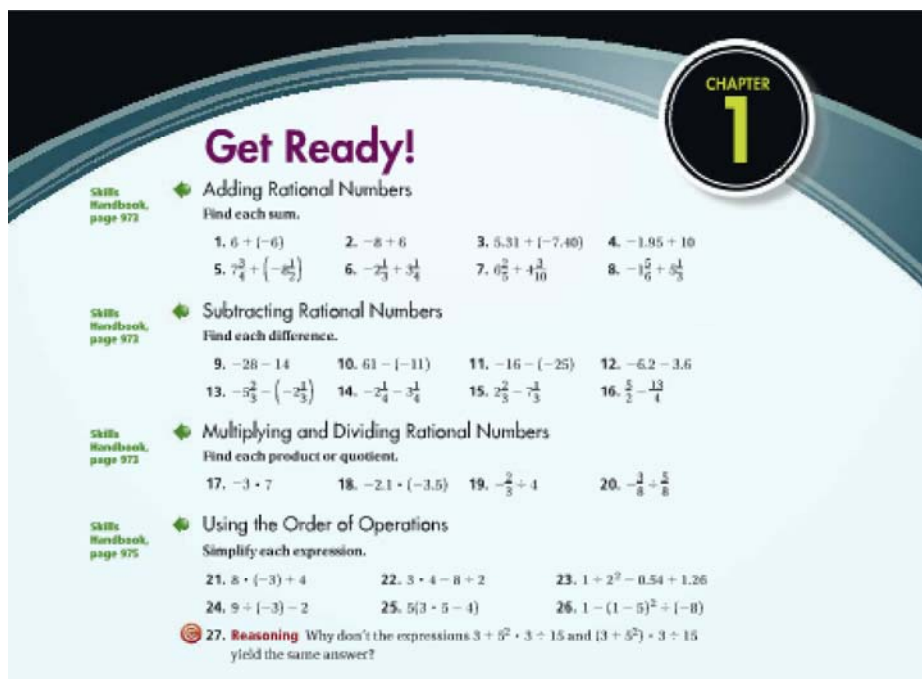


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Unit 0 Combining like terms Name \_\_\_\_\_

Combine the like terms.

1)  $2x + 5x + 6$       2)  $6x - 7 - 12x$       3)  $3x - 6x - 3 - 7x$   
 $7x + 6$        $-6x - 7$        $2x - 3$

4)  $7x - 5 + 3x - 2$       5)  $16x + 4x - 3 + 12 - 5x$       6)  $6x - 15 - 4x + 12 - 4$   
 $10x - 7$        $15x + 9$        $10x - 7$

7)  $5 - 17x - x + (-3)$       8)  $7 - 14x + 12x - 6$       9)  $9x + 3x - 7 - 4x + 9x$   
 $-18x + 2$        $-2x + 1$        $17x - 7$   
 $1-2x$

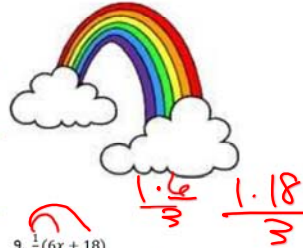
10)  $3(6x + 4) + 5x$       11)  $7(2x - 6) - 8$       12)  $5x - 2(3x + 4) + 7$   
 $23x + 12$        $14x - 42 - 8$        $-x - 1$   
 $14x - 50$

Name: \_\_\_\_\_ Period: \_\_\_\_\_

The Distributive Property

Simplify the expression.

1.  $9(2x - 1)$   $18x - 9$
2.  $(3x + 4)6$   $18x + 24$
3.  $12(x + 12)$   $12x + 144$
4.  $(4x - 2)6$   $24x - 12$
5.  $-2(5x + 2)$   $-10x - 4$
6.  $-3(8x - 1)$   $-24x + 3$
7.  $-10(x + 3)$   $-10x - 30$
8.  $-1(-3x + 8)$   $3x - 8$
9.  $\frac{1}{3}(6x + 18)$   $2x + 6$   
 $\frac{1 \cdot 6}{3} \quad \frac{1 \cdot 18}{3}$
10.  $\frac{3}{4}(8x - 40)$   $6x - 30$
11.  $(12 + x)\frac{1}{2}$   $6 + \frac{1}{2}x$
12.  $\frac{1}{3}(3x + 9)$   $x + 3$



To EVALUATE means to replace the variables in an expression with numbers.

An EXPRESSION is built from numbers, variables, operations and grouping symbols.

1.3

+ - · ÷ ( ) [ ]

Evaluate each expression

<p>1.) <math>2x^2 - 7</math> when <math>x = 3</math></p> $2(3)^2 - 7$ $2(9) - 7$ $11$	<p>2.) <math>4t^2 + 2t - 3</math> when <math>t = -4</math></p> $4(-4)^2 + 2(-4) - 3$ $64 - 8 - 3$ $53$
<p>3.) <math>\frac{1}{2}y - 5</math> when <math>y = 10</math></p>	<p>4.) <math>30 - 2(m - 4)</math> when <math>m = -2</math></p>

LIKE TERMS are terms with the same variable ending

Evaluate each expression

1)  $5w - 2w + 8w$

2)  $3n^2 + 1n - 1n^2 + 1n$   
 $2n^2 + 2n$

3)  $2(x + 1) - 3(x - 4)$