Name_____ Date: _____

SOLVING EQUATIONS—COMBINING LIKE TERMS #2

Directions: Solve for x in each equation below. Your first step should be to combine any like terms. Then use inverse operations to get the variable all by itself on one side of the equation. Make sure to show your work.

Examples:

$3x + 12 - x = 48$	*(subtract 3x - x)*	$3x + 12 - 2 = 25$	*(subtract 12 - 2)*
$2x + 12 = 48$	*(subtract 12 from both sides)*	$3x + 10 = 25$	*(subtract 10 from both sides)*
$2x = 36$	*(divide both sides by 2)*	$3x = 15$	*(divide both sides by 3)*
x = 18		**x = 5**	

1) $5x + 10 - 2x = 40$

x = _____

2) $6x + 10 - 2x = 42$

x = _____

3) $2x + 20 - x = 60$

x = _____

4) $8x + 10 - 4x = 18$

x = _____

5) $6x + 10 - 3x = 55$

x = _____

6) $4x + 12 - 2x = 16$

x = _____

7) $6x + 16 - 2x = 28$

x = _____

8) $9x + 12 - 3x = 72$

x = _____

9) $3 + 6x - 2 = 31$

x = _____

10) $7 + 7x - 2 = 75$

x = _____

11) $2x + 20 - 2 = 60$

x = _____

12) $x + 4x - 1 = 24$

x = _____

LIVEWORKSHEETS