Name_____

SOLVING EQUATIONS—THE DISTRIBUTIVE PROPERTY #2

Directions: Solve for *x* in each equation below. You can attack this problem several ways. *Example 1* shows you how to use the distributive property to simplify the equations, then use inverse operations to isolate the variable. *Example 2* shows you how to divide both sides by the number being distributed, then use inverse operations to isolate the variable.

Examples:	$3(2x - 10) = 48$	(*distribute 3 to each term)*)	$5(2x - 3) = 25$	(*divide by 5 on both sides)*
	$6x - 30 = 48$	(*add 30 to both sides)*	$2x - 3 = 5$	(*add 3 to both sides)*
	$6x = 78$	(*divide both sides by 6)*	$2x = 8$	(*divide both sides by 2)*
	x = 13		**x = 4**	

1) $4(2x - 10) = 16$ ***x*** = _____

2) $3(4x - 3) = 27$ ***x*** = _____

3) $2(x - 10) = 60$ ***x*** = _____

4) $4(3x - 4) = 68$ ***x*** = _____

5) $5(2x - 3) = 45$ ***x*** = _____

6) $7(4x - 1) = 49$ ***x*** = _____

7) $2(10x - 10) = 60$ ***x*** = _____

8) $4(3x - 2) = 76$ ***x*** = _____

9) $5(2x - 10) = 30$ ***x*** = _____

10) $2(12x - 1) = 22$ ***x*** = _____

11) $15(x - 3) = 60$ ***x*** = _____

12) $2(20x - 2) = 36$ ***x*** = _____