


~Solving Equations & Parentheses~

Algebra Foundations

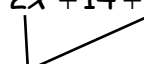
Name _____ per _____

**Here's an example of a problem that requires you to use the distributive property before you can combine like terms.*

Ex: $2(x + 7) + x = 20$


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$2x + 14 + x = 20$


 $3x + 14 = 20$

$-14 - 14$

$3x = 6$

$\frac{3x}{3} = \frac{6}{3}$

So: $x = 2$

Step 1: Distribute the 2 to the x and the 7.

Step 2: Combine Like Terms

Step 3: Undo the 14 by subtracting 14 from both sides.

Step 4: Undo the 3 by dividing both sides by 3.

You Try These: (Make sure you show all your steps).

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

2) $3(m + 1) - 2m = 0$

3) $y + 4(2y + 3) = 15$

4) $-\frac{1}{2}(t + 2) + 3t = -1$

$$5) 4(n + 2) - 2n = 0$$

$$6) 4 + 2(1 + x) = 12$$

$$7) -(x + 3) + \frac{3}{4}x + 5 = 0$$

$$8) 2(3x - 1) + 2(4x + 5) = 8$$