

Algebra I
Solving Equations - Two Steps
Distributive Prop./Like Terms

Name _____

Solve and check each of the following equations.

1. $3(x + 2) = 24$

2. $-2(4c - 5) = 2$

3. $8(d - 1) = -40$

CHECK:

CHECK:

CHECK:

4. $4x - 8 - 6x = 3$

5. $-22 = 9 - x + 11x$

6. $9 = -3x + 4 - 2x$

CHECK:

CHECK:

CHECK:

7. $\frac{1}{2}x - 1 = -3$

8. $12.5y - 6.2y = 10.3$

9. $49 = 7x + 12x$

CHECK:

CHECK:

CHECK:

$$10. -10 = \frac{3}{4}b + b$$

$$11. 2(x+1) - x = 19$$

$$12. 5x - (x+9) = 27$$

CHECK:

CHECK:

CHECK:

$$13. 55x - 3(9x+12) = -64$$

$$14. -7(6-3x) - 20x = 8$$

CHECK:

CHECK:

Analyze problems #15 and #16 below. Find the errors in the solutions. There may be more than one error for each problem.

$$15. -80 = 4(2w - 3) - 6w$$

$$-80 = 8w - 4 - 6w$$

$$-80 = 14w - 4$$

$$-84 = 14w$$

$$6 = w$$

$$16. -3x - 8 - 8x = 47$$

$$-5x - 8 = 47$$

$$-5x = 39$$

$$x = \frac{-39}{5}$$