

Name: _____



Solving Multi-Step Equations

Directions: Solve each equation.

1. $2x + 5 = 17$

9. $2x + 5 = 3x - 10$

2. $3x - 4 = 8$

10. $4(x + 3) = -2(x + 5)$

3. $-2(x + 3) = 16$

11. $-(7 - 3x) = 4x + 3$

4. $4x - 7 = 3x + 10$

12. $2(2x - 3) = 3x + 3$

5. $3(2x - 4) + 5 = 17$

13. $5(2x + 4) - 3(3x - 2) = 17$

6. $-(8x + 2) = 14$

14. $4(2x - 5) = 22 - 2(x + 3)$

7. $3(3x - 1) + 4 = 13$

15. $2x - 3 = 7x + 5$

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

16. $-3(3x + 2) = 10 - 4(2x - 3)$

ANSWER KEY

1. $2x + 5 = 17$
 $x = 6$

2. $3x - 4 = 8$
 $x = 4$

3. $-2(x + 3) = 16$
 $x = -11$

4. $4x - 7 = 3x + 10$
 $x = 17$

5. $3(2x - 4) + 5 = 17$
 $x = 4$

6. $-(8x + 2) = 14$
 $x = -2$

7. $3(3x - 1) + 4 = 13$
 $x = 4/3$

8. $2(5x - 3) = 8 + 3(2x + 4)$
 $x = 13/2$

9. $2x + 5 = 3x - 10$
 $x = 15$

10. $4(x + 3) = -2(x + 5)$
 $x = -11/3$

11. $-(7 - 3x) = 4x + 3$
 $x = -10$

12. $2(2x - 3) = 3x + 3$
 $x = 9$

13. $5(2x + 4) - 3(3x - 2) = 17$
 $x = -9$

14. $4(2x - 5) = 22 - 2(x + 3)$
 $x = 18/5$

15. $2x - 3 = 7x + 5$
 $x = -8/5$

16. $-3(3x + 2) = 10 - 4(2x - 3)$
 $x = -28$