

Name: _____

Solving Multi-Step Equations



Directions: Solve each equation.

1. $3x - 8 = 22$

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

2. $4x - 5 = 31$

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

3. $5x - 3 = 4x + 10$

11. $2(2x - 3) = 3(x + 1)$

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

12. $5(2x + 4) - 3(3x - 2) = 17$

5. $2(x + 3) = 16$

13. $2x + 3 = x - 5$

6. $2(3x + 2) - 7 = 15$

14. $3(4x - 1) = 5 + 2(2x + 3)$

7. $2x + 5 = 3x - 10$

15. $4x - 5 = 7x - 12$

8. $3(2x - 1) + 4 = 14$

16. $2(x - 3) = 3(2x - 1)$

ANSWER KEY

1. $3x - 8 = 22$
 $x = 10$

2. $4x - 5 = 31$
 $x = 9$

3. $5x - 3 = 4x + 10$
 $x = 13$

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

5. $2(x + 3) = 16$
 $x = 5$

6. $2(3x + 2) - 7 = 15$
 $x = 3$

7. $2x + 5 = 3x - 10$
 $x = 15$

8. $3(2x - 1) + 4 = 14$
 $x = 13/6$

9. $4(x + 3) = 2(x - 5)$
 $x = -11$

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

11. $2(2x - 3) = 3(x + 1)$
 $x = 9$

12. $5(2x + 4) - 3(3x - 2) = 17$
 $x = -9$

13. $2x + 3 = x - 5$
 $x = -8$

14. $3(4x - 1) = 5 + 2(2x + 3)$
 $x = 7/4$

15. $4x - 5 = 7x - 12$
 $x = 7/3$

16. $2(x - 3) = 3(2x - 1)$
 $x = -3/4$