

Name: _____

Date: _____

Combine like terms

Solve each equation. Check your answer by substituting it.

1. $4n + 2n - 3 = -51$ _____

11. $6x + 4x - 5 = 55$ _____

2. $4y + 5y - 4 = 23$ _____

12. $4a + 4a + 3 = 43$ _____

3. $5n + 2n - 8 = -57$ _____

13. $6x + 3x + 1 = -62$ _____

4. $4y + 4y - 9 = 15$ _____

14. $4n + 5n + 10 = -26$ _____

5. $5x + 3x - 1 = 7$ _____

15. $6x + 2x - 11 = -83$ _____

6. $3y + 2y - 10 = -15$ _____

16. $5a + 4a + 2 = 11$ _____

7. $6n + 3n - 2 = 70$ _____

17. $6y + 5y + 7 = -70$ _____

8. $6n + 2n + 8 = 40$ _____

18. $5n + 4n + 12 = -60$ _____

9. $5x + 4x + 4 = 22$ _____

19. $6a + 4a + 11 = 101$ _____

10. $2x + 5x - 7 = -63$ _____

20. $4y + 5y + 8 = 80$ _____

Multi-Step Equations: Answer Key

1. $n = -8$

2. $y = 3$

3. $n = -7$

4. $y = 3$

5. $x = 1$

6. $y = -1$

7. $n = 8$

8. $n = 4$

9. $x = 2$

10. $x = -8$

11. $x = 6$

12. $a = 5$

13. $x = -7$

14. $n = -4$

15. $x = -9$

16. $a = 1$

17. $y = -7$

18. $n = -8$

19. $a = 9$

20. $y = 8$