

Name: _____

Date: _____

Distribute: $a(x + b) = c$

Solve each equation. Check your answer by substituting it.

1. $5(a - 3) = 0$ _____

11. $7(x + 8) = 42$ _____

2. $2(y - 3) = 12$ _____

12. $7(x - 9) = -77$ _____

3. $4(n - 1) = -12$ _____

13. $3(x - 6) = -21$ _____

4. $5(n + 5) = 40$ _____

14. $5(y - 9) = -20$ _____

5. $2(n + 3) = 0$ _____

15. $6(n - 4) = -6$ _____

6. $6(x - 3) = -6$ _____

16. $6(x - 7) = -36$ _____

7. $5(y - 4) = 15$ _____

17. $7(n - 5) = -70$ _____

8. $5(n + 4) = 35$ _____

18. $4(y + 7) = 4$ _____

9. $6(y - 7) = -48$ _____

19. $5(n + 3) = 40$ _____

10. $2(a + 5) = 20$ _____

20. $3(n - 9) = -18$ _____

Multi-Step Equations: Answer Key

1. $a = 3$

2. $y = 9$

3. $n = -2$

4. $n = 3$

5. $n = -3$

6. $x = 2$

7. $y = 7$

8. $n = 3$

9. $y = -1$

10. $a = 5$

11. $x = -2$

12. $x = -2$

13. $x = -1$

14. $y = 5$

15. $n = 3$

16. $x = 1$

17. $n = -5$

18. $y = -6$

19. $n = 5$

20. $n = 3$