

Name: _____

Date: _____

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

Solve each equation. Check your answer by substituting it.

1. $7(x - 8) = -98$ _____

11. $3(y + 8) = 42$ _____

2. $7(a + 5) = 84$ _____

12. $4(x - 6) = -36$ _____

3. $3(a - 3) = 3$ _____

13. $7(n - 4) = -63$ _____

4. $3(n + 9) = 9$ _____

14. $7(y - 4) = 7$ _____

5. $3(a - 4) = -18$ _____

15. $3(y - 5) = -36$ _____

6. $3(n - 4) = 12$ _____

16. $6(a + 4) = 30$ _____

7. $7(y - 1) = 28$ _____

17. $6(a + 1) = 48$ _____

8. $2(n - 6) = -16$ _____

18. $5(a + 3) = -15$ _____

9. $2(x - 4) = -6$ _____

19. $7(n - 7) = -63$ _____

10. $4(x + 4) = 24$ _____

20. $6(a + 2) = 30$ _____

Multi-Step Equations: Answer Key

1. $x = -6$

2. $a = 7$

3. $a = 4$

4. $n = -6$

5. $a = -2$

6. $n = 8$

7. $y = 5$

8. $n = -2$

9. $x = 1$

10. $x = 2$

11. $y = 6$

12. $x = -3$

13. $n = -5$

14. $y = 5$

15. $y = -7$

16. $a = 1$

17. $a = 7$

18. $a = -6$

19. $n = -2$

20. $a = 3$