



Name: _____

Date: _____

Algebra 1 – Unit 2 – Solving Multi-Step Equations (Challenge)

Solve each two-step equation. Show your work.

1. $4(3x + 7) = 100$

2. $2(4x - 8) = 48$

3. $5(4x - 20) = 0$

4. $3(2x - 12) - 19 = 35$

5. $2(4x + 17) = 130$

6. $4(4x + 12) + 26 = 170$

7. $3(4x + 6) + 11 = 89$

8. $4(5x - 18) = 28$



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Algebra 1 – Unit 2 – Solving Multi-Step Equations (Challenge)

Solve each two-step equation. Show your work.

9. $2(3x + 8) = 76$

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

11. $3(3x - 15) = 9$

12. $4(5x - 7) = 72$

13. $6x + 30 = 4x + 130$

14. $4(4x - 8) - 28 = 36$

15. $5(2x + 12) = 140$

16. $3(4x - 15) = 15$



Algebra 1 – Unit 2 – Solving Multi-Step Equations (Challenge) – Answer Key

1. $4(3x + 7) = 100$

$x = 6$

2. $2(4x - 8) = 48$

$x = 8$

3. $5(4x - 20) = 0$

$x = 5$

4. $3(2x - 12) - 19 = 35$

$x = 15$

5. $2(4x + 17) = 130$

$x = 12$

6. $4(4x + 12) + 26 = 170$

$x = 6$

7. $3(4x + 6) + 11 = 89$

$x = 5$

8. $4(5x - 18) = 28$

$x = 5$



Algebra 1 – Unit 2 – Solving Multi-Step Equations (Challenge) – Answer Key

9. $2(3x + 8) = 76$

$x = 10$

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

$x = 7$

11. $3(3x - 15) = 9$

$x = 6$

12. $4(5x - 7) = 72$

$x = 5$

13. $6x + 30 = 4x + 130$

$x = 50$

14. $4(4x - 8) - 28 = 36$

$x = 6$

15. $5(2x + 12) = 140$

$x = 8$

16. $3(4x - 15) = 15$

$x = 5$