

2.3 Solving Multi-Step Equations Name _____

Solve each equation and check your solutions.

1. $3x + 5 = 38$ Check:

2. $-5a + 4 = 19$ Check:

3. $2x - 3 = -21$ Check:

4. $-4x - 7 = 1$ Check:

5. $17 = 3x + 5$ Check:

6. $-2 = 2x + 16$ Check:

Answers: **1.** 11; **3.** -9; **5.** 4

Solve each equation and check your solutions.			
7.	$5 - 4x = -6$	Check:	
8.	$4 - x = -2$	Check:	
9.	$-x - 5.6 = 3.2$	Check:	
10.	$-y - 5.9 = -3$	Check:	
11.	$7x - 3 = 5x - 7$	Check:	
12.	$3x + 8 = 7x - 12$	Check:	
Answers: 7. $\frac{11}{4}$; 9. -8.8; 11. -2			

Solve each equation and check your solutions.

13. $8x - 6 = 10x$ Check:

14. $8x - 3 = 9x$ Check:

15. $4 - x = 4x - 11$ Check:

16. $7 - 3x = 4x + 14$ Check:

17. $-x + 5 + 4x = 23$ Check:

18. $3x + 2 + 7x = 42$ Check:

Answers: **13.** -3 ; **15.** 3 ; **17.** 6

Solve each equation.

19. $3(2x + 1) - 5 = 22$

20. $5(3x - 1) + 5 = -60$

21. $2(3x - 1) = -2(4x - 3) + 9x$

22. $2(x - 3) = -2(3x - 1) + 5x + 1$

23. $5x - (3x - 4) = -2$

24. $5 = 4x - (x - 1)$

Answers: 19. 4; 21. $\frac{8}{5}$; 23. -3