

2.2 Solving Simple Equations

Name _____

Solve each equation and check your solutions.	
1. $x + 9 = 5$ Check:	2. $y + 3 = -10$ Check:
3. $x - 3 = 16$ Check:	4. $m - 9 = 4$ Check:
5. $9 = x + 2$ Check:	6. $-8 = x + 4$ Check:
7. $8 = -5 + x$ Check:	8. $12 = 5 + a$ Check:
Answers: 1. -4; 3. 19; 5. 7; 7. 13	

Solve each equation and check your solutions.

9. $x - 5.6 = -3.2$

Check:

10. $y - 51.9 = -4.6$

Check:

11. $-5 = p + 4.3$

Check:

12. $-9 = y + 1.5$

Check:

13. $4.3 + m = 4.3$

Check:

14. $-2 + x = -2$

Check:

Answers: **9.** 2.4; **11.** -9.3 **13.** 0

Solve each equation and check your solutions.	
15. $-4x = 36$ Check:	16. $-2x = 52$ Check:
17. $\frac{x}{4} = 2.9$ Check:	18. $\frac{x}{5} = -1.4$ Check:
19. $\frac{1}{4}x = \frac{3}{8}$ Check:	20. $-\frac{3}{5}y = \frac{2}{3}$ Check:
21. $-7.1 = \frac{x}{3}$ Check:	22. $14 = \frac{y}{-2}$ Check:
23. $-x = 5$ Check:	24. $4.3 = -y$ Check:
25. $3x = -\frac{2}{3}$ Check:	26. $5x = \frac{1}{2}$ Check:
Answers: 15. -9 ; 17. 11.6 ; 19. $\frac{3}{2}$; 21. -21.3 ; 23. -5 ; 25. $-\frac{2}{9}$	

Translate each mathematical sentence into an equation and solve. Check your solution.

27. The product of -5 and a number is 27

28. The product of 12 and a number is 48 .

29. The sum of 10 and a number is -45 .

30. The sum of 1.5 and a number is 5 .

31. Ten less than a number is 38 .

32. Twelve less than a number is 3 .

Answers: **27.** $-5x = 27$, $x = -\frac{27}{5}$; **29.** $10 + x = -45$, $x = -55$; **31.** $x - 10 = 38$, $x = 48$