

Key

2.1 One Step Equations Worksheet

SOLVING ADDITION AND SUBTRACTION EQUATIONS Solve the equation.
Check your solution.

3. $x + 5 = 8$

$x = 3$

4. $m + 9 = 2$

$x = -7$

5. $11 = f + 6$

$f = 5$

6. $13 = 7 + z$

$z = 6$

11. $14 = k - 3$

$k = 17$

12. $6 = w - 7$

$w = 13$

13. $-2 = n - 6$

$n = 4$

14. $-11 = b - 9$

$b = -2$

SOLVING MULTIPLICATION AND DIVISION EQUATIONS Solve the equation.
Check your solution.

17. $5g = 20$

$g = 4$

18. $-4q = 52$

$q = -13$

19. $48 = 8c$

$c = 6$

20. $-108 = 9j$

$j = -12$

21. $15 = -h$

$h = -15$

22. $187 = -17r$

$r = -11$

23. $\frac{y}{3} = 5$

$y = 15$

24. $\frac{m}{2} = 14$

$m = 28$

25. $8 = \frac{x}{6}$

$x = 48$

26. $7 = \frac{t}{-7}$

$t = -49$

27. $-11 = \frac{z}{-2}$

$z = 22$

28. $-3 = \frac{d}{14}$

$d = -42$

40. $\frac{1}{2}m = 21$

$m = 42$

41. $\frac{1}{3}c = 32$

$c = 96$

42. $-7 = \frac{1}{5}x$

$x = -35$

$$46. \frac{8}{5}x = \frac{4}{15} \frac{5}{82}$$

$$x = \frac{1}{6}$$

$$47. \frac{1}{3}y = \frac{1}{5}$$

$$y = \frac{3}{5}$$

$$48. \frac{2}{2} - \frac{4}{3} = \frac{2}{3}z$$

$$z = -2$$

53. **THE DEAD SEA** For the period 1999–2004, the maximum depth of the Dead Sea decreased by 9.9 feet. The maximum depth in 2004 was 1036.7 feet. What was the maximum depth in 1999?

$$\begin{array}{r} x - 9.9 = 1036.7 \\ +9.9 \quad +9.9 \\ \hline \end{array}$$

$$x = 1046.6 \text{ ft}$$

55. **TRAMPOLINES** A rectangular trampoline has an area of 187 square feet. The length of the trampoline is 17 feet. What is its width?

$$w \begin{array}{|c|} \hline 17 \text{ ft} \\ \hline A = 187 \text{ ft}^2 \\ \hline \end{array}$$

$$\frac{17w}{17} = \frac{187}{17}$$

$$w = 11 \text{ ft}$$