

Solving Basic Equations

$$\begin{aligned}4x + 3 &= 15 \\4x + 3 - 3 &= 15 - 3 \\4x &= 12 \\x &= 3\end{aligned}$$

KEY

Solve each equation for the given variable.

1. $4x - 7 = 37$

11

2. $3x = 6 + -9$

-1

3. $8 - 9y = 35$

-3

4. $7x - 12 = 2$

2

5. $8 - 12x = 32$

-2

6. $0 = 25x + 75$

-3

7. $4(e + 4) = -12$

-7

8. $3n - 9 = 9$

6

9. $3(x + 4) + 5 = 35$

6

10. $9x - 3 = 24$

3

11. $5 - \frac{1}{2}x = -9$

28

12. $32 = \frac{4}{6}x - 34$

99

13. $1.3x + 5 = -5.4$

-8

14. $\frac{x}{3} - 8 = -12$

-12

15. $3 - \frac{1}{5}x = -7$

50

16. $7 - \frac{1}{9}k = 32$

-225

17. $\frac{2x}{5} + 3 = 9$

15

18. $4.7 = -3.4m - 5.5$

-3

19. $\frac{3}{12}x + 2 = 11$

36

20. $8 - \frac{1}{2}y = -6$

28