

Solving Basic Equations

$$\begin{aligned}12x + 3 &= 147 \\12x + 3 - 3 &= 147 - 3 \\12x &= 144 \\x &= 12\end{aligned}$$

Solve each equation for the given variable.

1. $3(x - 7) = 9$

10

2. $\frac{m}{4} + 6 = 2$

-16

3. $4(c + 2) = -28$

-9

4. $-9r + 5 = -22$

3

5. $4 + 3g = -14$

-6

6. $7t - 3 + 4t = -25$

-2

7. $14a + 5 - 8a = -1$

-1

8. $2m - 3 - 8m = -27$

4

9. $-5 + 7d + 3 = 33$

5

10. $b + 9 - 2b = 6$

3

11. $4j - 9j + 3 = -32$

7

12. $3d - 5 - 2d = -9$

-4

13. $2k + 3(k + 4) = -3$

-3

14. $3e + 4e + 1 = 36$

5

15. $5(j - 4) + j = -8$

2

16. $12k - 3(k + 5) = 48$

7

17. $-6r + 12 - 8r = -2$

1

18. $-j + 3j + 2 = -14$

-8

19. $5(m - 3) + 2m = 27$

6

20. $4e + 6 - 11e = -8$

2