

Multi-Step Equations | Integers

Solve each equation.

1) $8(d + 2) = 4d - 12$

$d =$ _____

2) $-5(t - 12) + 7 = -8$

$t =$ _____

3) $4(2v - 6 + v) = 12$

$v =$ _____

4) $\frac{6(a - 4)}{a} = 10$

$a =$ _____

5) $9 - (11 + 3k) = 2k$

$k =$ _____

6) $10z + 14 = 11 + 5z - 7$

$z =$ _____

7) $5 = \frac{6m + 10}{m - 3}$

$m =$ _____

8) $-3(9p + 5) = 12$

$p =$ _____

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Answer key

Solve each equation.

1) $8(d + 2) = 4d - 12$

$$d = \underline{\quad -7 \quad}$$

2) $-5(t - 12) + 7 = -8$

$$t = \underline{\quad 15 \quad}$$

3) $4(2v - 6 + v) = 12$

$$v = \underline{\quad 3 \quad}$$

4) $\frac{6(a - 4)}{a} = 10$

$$a = \underline{\quad -6 \quad}$$

5) $9 - (11 + 3k) = 2k$

$$k = \underline{\quad -\frac{2}{5} \quad}$$

6) $10z + 14 = 11 + 5z - 7$

$$z = \underline{\quad -2 \quad}$$

7) $5 = \frac{6m + 10}{m - 3}$

$$m = \underline{\quad -25 \quad}$$

8) $-3(9p + 5) = 12$

$$p = \underline{\quad -1 \quad}$$