

Two-Step Equations

Solve each equation to find the value of the variable.

① $4a + 45 = -7$

② $43 - \frac{k}{3} = 27$

③ $4z - 7 = -83$

④ $\frac{d}{2} - 39 = -61$

⑤ $38 - 9e = -34$

⑥ $\frac{c}{3} + 29 = 11$



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⑩ $\frac{n}{4} + 11 = 9$

⑪ $5f - 8 = 67$

⑫ $4 - \frac{k}{3} = -17$

⑬ $7j + 3 = -39$

⑭ $\frac{w}{8} + 9 = 6$

⑮ $9v + 7 = -38$

Two-Step Equations

$$\begin{aligned} \textcircled{1} \quad 4a + 45 &= -7 \\ -45 \quad -45 \\ \hline 4a &= -52 \\ \frac{4a}{4} &= \frac{-52}{4} \end{aligned}$$

$$a = -13$$

$$\begin{aligned} \textcircled{2} \quad 43 - \frac{k}{3} &= 27 \\ -43 \quad -43 \\ \hline (-3) - \frac{k}{3} &= -16 \quad (-3) \end{aligned}$$

$$k = 48$$

$$\begin{aligned} \textcircled{3} \quad 4z - 7 &= -83 \\ +7 \quad +7 \\ \hline 4z &= -76 \\ \frac{4z}{4} &= \frac{-76}{4} \end{aligned}$$

$$z = -19$$

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$$\frac{7j}{7} = \frac{-42}{7}$$

$$j = -6$$

$$\textcircled{8} \quad \frac{w}{8} = -3 \quad (-8)$$

$$w = -24$$

$$\frac{7v}{9} = \frac{-45}{9}$$

$$v = -5$$