

Two-Step Equations

Solve each equation to find the value of the variable.

① $4z - 10.6 = -7.4$

② $\frac{c}{2.5} + 8.6 = 6.4$

③ $24.8 - 3a = 12.2$

④ $\frac{d}{2} - 0.5 = 4.8$

⑤ $4y - 3.7 = 9.1$

⑥ $1.7 + \frac{k}{3} = 4.9$



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⑩ $\frac{n}{2.5} + 7.9 = 3.1$

⑪ $3j + 6.3 = -2.4$

⑫ $1.3 - \frac{k}{3.1} = -2.7$

⑬ $2.3d + 1.6 = -5.3$

⑭ $\frac{w}{1.5} + 3.6 = 2.4$

⑮ $0.5v + 6.8 = -1.4$

Two-Step Equations

$$\begin{aligned} \textcircled{1} \quad 4z - 10.6 &= -7.4 \\ + 10.6 \quad + 10.6 \\ \hline 4z &= 3.2 \\ \frac{4z}{4} &= \frac{3.2}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{c}{2.5} + 8.6 &= 6.4 \\ - 8.6 \quad - 8.6 \\ \hline \frac{c}{2.5} &= -2.2 \\ (2.5) \frac{c}{2.5} &= -2.2(2.5) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 24.8 - 3a &= 12.2 \\ - 24.8 \quad - 24.8 \\ \hline -3a &= -12.6 \\ \frac{-3a}{-3} &= \frac{-12.6}{-3} \end{aligned}$$

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$$\begin{aligned} -1.6 \quad -1.6 \\ 2.3d &= -6.9 \\ \frac{2.3d}{2.3} &= \frac{-6.9}{2.3} \end{aligned}$$

$$d = -3$$

$$\begin{aligned} -0.6 \quad -0.6 \\ (1.5) \frac{w}{1.5} &= -1.2(1.5) \end{aligned}$$

$$w = -1.8$$

$$\begin{aligned} -0.8 \quad -0.8 \\ 0.5v &= -8.2 \\ \frac{0.5v}{0.5} &= \frac{-8.2}{0.5} \end{aligned}$$

$$v = -16.4$$