

12.2 Solving Multi-Step Equations

p. 682 1-9-18

Jan 13-8:27 AM

Solve $12 - 7b + 10b = 18$.

$$\begin{array}{r} 12 + 3b = 18 \\ -12 \qquad -12 \\ \hline 3b = 6 \\ \frac{3}{3} \quad \frac{6}{3} \\ b = 2 \end{array}$$

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Solve $14 - 8b + 12b = 62$.

$$\begin{array}{r} 14 + 4b = 62 \\ -14 \qquad -14 \\ \hline 4b = 48 \\ \frac{4}{4} \quad \frac{48}{4} \\ b = 12 \end{array}$$

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Solve $7n - 1 - 2n = 14$.

$$\begin{array}{r} 5n - 1 = 14 \\ +1 \quad +1 \\ \hline 5n = 15 \\ \frac{5}{5} \quad \frac{15}{5} \\ n = 3 \end{array}$$

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$12n - 7 - 3n = 11$

$$\begin{array}{r} 9n - 7 = 11 \\ +7 \quad +7 \\ \hline 9n = 18 \\ \frac{9}{9} \quad \frac{18}{9} \\ n = 2 \end{array}$$

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$3a + 2 + 4a = 23$

$$\begin{array}{r} 7a + 2 = 23 \\ -2 \quad -2 \\ \hline 7a = 21 \\ \frac{7}{7} \quad \frac{21}{7} \\ a = 3 \end{array}$$

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$$x + 6 + 2x = 15$$

$$\begin{array}{r} 3x + 6 = 15 \\ -6 \quad -6 \\ \hline 3x = 9 \\ \frac{3}{3} \quad \frac{3}{3} \\ x = 3 \end{array}$$

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$$10b + 9 - 3b = 2$$

$$\begin{array}{r} 7b + 9 = 2 \\ -9 \quad -9 \\ \hline 7b = -7 \\ \frac{7}{7} \quad \frac{7}{7} \\ b = -1 \end{array}$$

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$$5n - 2 + 3n = 5$$

$$\begin{array}{r} 8n - 2 = 5 \\ +2 \quad +2 \\ \hline 8n = 7 \\ \frac{8}{8} \quad \frac{7}{8} \\ n = \frac{7}{8} \end{array}$$

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