

$$\begin{array}{r|l} 2 + \frac{a}{4} & = -1 \\ -2 & -2 \\ \hline (4) \frac{a}{4} & = -3 \quad (4) \\ \hline a & = -12 \end{array}$$

$$\begin{array}{r|l} 3n - 4 & = 11 \\ +4 & +4 \\ \hline 3n & = 15 \\ \frac{3n}{3} & = \frac{15}{3} \\ \hline n & = 5 \end{array}$$

$$\begin{array}{r|l} -1 & = 7 + 8x \\ -7 & -7 \\ \hline -8 & = 8x \\ \frac{-8}{8} & = \frac{8x}{8} \\ \hline -1 & = x \end{array}$$

$$\begin{array}{r|l} 4b + 6 & = -2 \\ -6 & -6 \\ \hline 4b & = -8 \\ \frac{4b}{4} & = \frac{-8}{4} \\ \hline b & = -2 \end{array}$$

$$\begin{array}{r|l} 4b + 6 & = -2 \\ -6 & -6 \\ \hline 4b & = -8 \\ \frac{4b}{4} & = \frac{-8}{4} \\ \hline b & = -2 \end{array}$$

$$\begin{array}{r|l} 10 & = \frac{x}{4} - 8 \\ +8 & +8 \\ \hline (4) 18 & = \frac{x}{4} \quad (4) \\ \hline 72 & = x \end{array}$$

(23) Define the variable:  $x = \text{number of boxes}$

$$\begin{array}{r|l} 160 + 50x & = 1000 \\ -160 & -160 \\ \hline 50x & = 840 \\ \frac{50x}{50} & = \frac{840}{50} \\ \hline x & = 16.8 \end{array}$$

Answer: 16 boxes

25) Define the variable:  $x = \text{rent for one month}$

$$\begin{array}{r|l} 500 + 2x = 2800 & \\ -500 & -500 \\ \hline 2x = 2300 & \\ \frac{2}{2} & \frac{2300}{2} \\ \hline x = 1150 & \end{array}$$

26) (2)  $\frac{y-4}{2} = 10$  (2)

$$\begin{array}{r|l} \frac{y-4}{2} = 10 & (2) \\ \hline y-4 = 20 & \\ +4 & +4 \\ \hline y = 24 & \end{array}$$

27) (3)  $7 = \frac{x-8}{3}$  (3)

$$\begin{array}{r|l} 7 = \frac{x-8}{3} & (3) \\ \hline 21 = x-8 & \\ +8 & +8 \\ \hline 29 = x & \end{array}$$

30) (2)  $7\frac{1}{2} = \frac{x+3}{2}$  (2)

$$\begin{array}{r|l} 7\frac{1}{2} = \frac{x+3}{2} & (2) \\ \hline 15 = x+3 & \\ -3 & -3 \\ \hline 12 = x & \end{array}$$

40)  $10 = 0.3x - 9.1$

$$\begin{array}{r|l} 10 = 0.3x - 9.1 & \\ +9.1 & +9.1 \\ \hline 19.1 = 0.3x & \\ \frac{19.1}{0.3} & \frac{0.3x}{0.3} \\ \hline 63\bar{6} = x & \end{array}$$

41)  $\frac{1}{2} = \frac{1}{2}c - 2$

$$\begin{array}{r|l} \frac{1}{2} = \frac{1}{2}c - 2 & \\ +2 & +2 \\ \hline \frac{5}{2} = \frac{1}{2}c & \\ \left(\frac{2}{1}\right) \frac{5}{2} = \frac{1}{2}c \left(\frac{2}{1}\right) & \\ \hline 5 = c & \end{array}$$

42) (3)  $\frac{x-3}{3} = -4\frac{1}{2}$  (3)

$$\begin{array}{r|l} \frac{x-3}{3} = -4\frac{1}{2} & (3) \\ \hline x-3 = -13\frac{1}{2} & \\ +3 & +3 \\ \hline x = -10\frac{1}{2} & \end{array}$$

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$$\begin{array}{r|l} 3x + 7 = 70 & \\ -7 & -7 \\ \hline 3x & = 63 \\ \frac{3x}{3} & = \frac{63}{3} \\ \hline x & = 21 \end{array}$$

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$$\begin{array}{r|l} 4x + 3 = 45 & \\ -3 & -3 \\ \hline 4x & = 42 \\ \frac{4x}{4} & = \frac{42}{4} \\ \hline x & = 10.5 \end{array}$$