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Aug. ~~20~~ : Bellringer

$$1) -2(x-3) - 4 = 18$$

$$2) -18 = \frac{9-x}{2}$$

$$\begin{aligned} \textcircled{1} \quad & -2x + 6 - 4 = 18 \\ & -2x + 2 = 18 \\ & \quad \quad \quad \underline{-2} \quad \underline{-2} \end{aligned}$$

$$\begin{aligned} & -2x = 16 \\ & \quad \quad \quad \underline{-2} \quad \underline{-2} \end{aligned}$$

$$x = -8$$

$$\textcircled{2} \quad 2(-18) = \frac{9-x}{2}$$

$$\begin{aligned} & -36 = 9 - x \\ & \quad \quad \quad \underline{-9} \quad \underline{-9} \end{aligned}$$

$$\begin{aligned} & -45 = -x \\ & \quad \quad \quad \underline{-1} \quad \underline{-1} \end{aligned}$$

$$45 = x$$

Learning target:

You can solve multi-step equations.

Solve.

1.  $2a - 6 = 4$

$$\begin{array}{r} +6 +6 \\ \hline \end{array}$$

$$\underline{\underline{2a}} = \underline{\underline{10}}$$

$$a = 5$$

2)  ~~$\frac{x+1}{-2} = 15 \cdot -2$~~

$$\underline{\underline{x+1}} = \underline{\underline{-30}}$$

$$x = -31$$

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$$\begin{array}{r} 9 \\ \hline \end{array} + \frac{2}{3}x = 81$$

$-9$   $-9$

$$\cancel{\frac{2}{3}} \cdot \frac{2}{3} x = \cancel{72}^{\cancel{36}} \cdot \cancel{3}$$

$$x = 108$$

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$$\cancel{6} \cdot \frac{5}{\cancel{6}} k + \frac{2}{\cancel{3}} \cdot \frac{2}{\cancel{6}} = \frac{4}{\cancel{3}} \cdot \frac{2}{\cancel{6}} \quad \text{LCD} = 6$$

$$5k + 4 = 8$$

$$\underline{-4} \qquad \underline{-4}$$

$$\cancel{5} | 5k = \cancel{5} | 4$$

$$k = \frac{4}{5}$$

LCD  
28

$$\frac{\cancel{28}^4}{\cancel{28}} - \frac{3}{7} = \frac{\cancel{3}^7}{\cancel{4}} - \frac{\cancel{1}^{14}}{\cancel{2}}$$

$$\begin{array}{r} -12 \\ \underline{-21} \end{array} = \begin{array}{r} \cancel{21} \\ \underline{-21} \end{array} - 14b$$

$$\begin{array}{r} -33 \\ \underline{-14} \end{array} = \begin{array}{r} -14b \\ \underline{-14} \end{array}$$

$$b = \frac{33}{14}$$

47)  $10 \cdot 3 \cdot 6 - 2 \cdot 4 \cdot 10 = 12 \cdot 10$

$$\begin{array}{r} \cancel{36} \\ \underline{-36} \end{array} - \begin{array}{r} 24m \\ \underline{-36} \end{array} = 120$$

$$\frac{-24m}{-24} = \frac{84}{-24}$$

$$m = -\frac{7}{2}$$

49)

If  $13y + 25 = 64$ , what is the value of  $4y - 7$ ?

$$13y + 25 = 64$$
$$\underline{-25 \quad -25}$$

$$13y = 39$$

$$y = 3$$

$$4y - 7$$

$$4(3) - 7$$

$$12 - 7$$

$$5$$

# Assignment

pp. 93 - 95

2-6E

12-22E

30-38E

42-50E