

4 Example Solve each equation.

New part

$$-\frac{5 \cdot 12}{4}n + \frac{1 \cdot 12}{2} - \frac{1 \cdot 12}{4} = \frac{1 \cdot 12}{6} - \frac{n \cdot 12}{1}$$

LCD = 12

~~$\frac{6}{4}$~~   
 $\frac{12}{6} = 2 \checkmark$   
 $\frac{12}{4} = 3 \checkmark$   
 $\frac{12}{2} = 6 \checkmark$

$$-\frac{60n}{4} + \frac{12}{2} - \frac{12}{4} = \frac{12}{6} - \frac{12n}{1}$$

$$-15n + 6 - 3 = 2 - 12n$$

$$-15n + 3 = 2 - 12n$$

$$\begin{array}{r} -15n = -1 - 12n \\ +12n \qquad +12n \end{array}$$

$$\begin{array}{r} -3n = -1 \\ -3 \qquad -3 \end{array}$$

$$n = \frac{1}{3}$$

5 Example Solve each equation.

$$\frac{37}{12} - x = -\frac{9}{4}x + 1$$

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Example

Solve each equation.

$$2k - \frac{4}{3} = -\frac{2}{3}k$$

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Example

Solve each equation.

$$6. \quad \frac{2m}{1} + \frac{2 \cdot 6}{3}m + \frac{19 \cdot 6}{6} = \frac{1 \cdot 6}{2}m + \frac{1 \cdot 6}{1}$$

LCD = 6

$$\frac{12m}{1} + \frac{12m}{3} + \frac{114}{6} = \frac{6m}{2} + \frac{6}{1}$$

$$12m + 4m + 19 = 3m + 6$$

$$16m + 19 = 3m + 6$$

$$\begin{array}{r} -3m \\ \hline 13m + 19 = 6 \end{array}$$

$$13m + 19 = 6$$

$$\begin{array}{r} -19 \\ \hline 13m = -13 \end{array}$$

$$\begin{array}{r} 13m = -13 \\ \hline 13 \quad 13 \end{array}$$

$$m = -1$$

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Example

Solve each equation.

$$-\frac{5}{4}x + 1 = -\frac{11}{3} + \frac{3}{4}x$$

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Example

Solve each equation.  $12$   $12$   $12$   $LCD = 36$ 

$$-\frac{4}{3}n - \frac{5}{4}n = \frac{14}{9} - \frac{4}{3}n - \frac{2}{3}n$$

$$-48n - 45n = 56 - 48n - 24n$$

$$\begin{array}{r} -93n = 56 - 72n \\ +72n \quad \quad \quad +72n \end{array}$$

$$\begin{array}{r} -21n = 56 \div 7 \\ -21 \quad -21 \div 7 \end{array}$$

$$n = -\frac{8}{3}$$