

multiply both sides by a common denominator

$$6\left(\frac{7}{10}n + \frac{3}{2}\right) = \left(\frac{3}{5}n + 2\right)10$$

$$\frac{70}{10}n + \frac{30}{2} = \frac{30}{5}n + 20$$

$$\begin{array}{r} 7n + 15 = 6n + 20 \\ -6n \quad -6n \\ \hline \end{array}$$

$$\begin{array}{r} n + 15 = 20 \\ -15 \quad -15 \\ \hline \end{array}$$

$$\boxed{n = 5}$$

$$7\left(\frac{1}{7}k - \frac{6}{1}\right) = \left(\frac{3}{7}k + \frac{4}{1}\right)7$$

$$\frac{7}{7}k - \frac{42}{1} = \frac{21}{7}k + \frac{28}{1}$$

$$\begin{array}{r} 7k - 42 = 3k + 28 \\ -3k \quad -3k \\ \hline \end{array}$$

$$\begin{array}{r} 4k - 42 = 28 \\ +42 \quad +42 \\ \hline \end{array}$$

$$4k = 60$$

$$\boxed{k = 15}$$

3

$$\left(\frac{2}{11}m + 16\right) = \left(4 + \frac{6}{11}m\right)$$

$$\frac{22}{11}m + 176 = 44 + \frac{66}{11}m$$

$$\begin{array}{r} 2m + 176 = 44 + 6m \\ -2m \quad -44 \quad -44 \quad -2m \\ \hline \end{array}$$

$$\frac{132}{4} = \frac{4m}{4}$$

$$\boxed{33 = m}$$

$$\frac{2(5)}{2(6)}y + \frac{1(12)}{1(12)} = \frac{-1(6)}{2(6)}y + \frac{1(3)}{4(3)}$$

$$\frac{10}{12}y + \frac{12}{12} = \frac{-6}{12}y + \frac{3}{12}$$

multiply
to make
all
denominators
the same
(12)

$$\begin{array}{r} 10y + 12 = -6y + 3 \\ +6y \quad +6y \\ \hline \end{array}$$

$$\frac{16y}{12} + \frac{12}{12} = \frac{3}{12}$$

$$\frac{16y}{16} = \frac{-9}{16}$$

$$\boxed{y = -\frac{9}{16}}$$