

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

1.) $\frac{7}{8} * \frac{12}{21}$ (Red circles around 7 and 21, with $\div 7$ written above and below)

$\frac{1}{8} * \frac{12}{3}$ (Blue circles around 8 and 12, with $\div 4$ written below)

$\frac{1}{2} * \frac{3}{3}$ (Red circle around 3, with $\div 3$ written above and below)

$\frac{1}{2} * \frac{1}{1} = \frac{1}{2}$

2.) $2\frac{1}{3} * 3\frac{4}{7}$ (Red circles around 7 and 7, with $\div 7$ written above and below)

$3\frac{4}{7} = \frac{(3 \times 7) + 4}{7} = \frac{25}{7}$

$\frac{1}{3} * \frac{25}{1} = \frac{25}{3}$ (Boxed answer)

3.) $\frac{5}{9} \div (\frac{15}{27})$

$\frac{5}{9} * \frac{27}{15}$ (Red circles around 9 and 27, with $\div 9$ written above and below)

$\frac{5}{1} * \frac{3}{15}$ (Blue circles around 5 and 15, with $\div 5$ written above and below)

Keep, change, Flip!

$\frac{1}{1} * \frac{3}{3}$ (Red circle around 3, with $\div 3$ written above and below)

$\frac{1}{1} * \frac{1}{1} = \frac{1}{1}$

(Boxed answer 1)

4.) $4\frac{1}{2} \div \frac{12}{16}$

$\frac{9}{2} \div (\frac{12}{16})$ (Red circles around 2 and 16, with $\div 2$ written below)

$\frac{9}{1} * \frac{2}{12}$ (Blue circles around 9 and 12, with $\div 3$ written above and below)

$\frac{3}{1} * \frac{2}{1} = \frac{6}{1}$ (Boxed answer 6)

$4\frac{1}{2} = \frac{(4 \times 2) + 1}{2} = \frac{9}{2}$

$\frac{3}{1} * \frac{8}{4}$ (Red circle around 8, with $\div 4$ written above)

$\frac{3}{1} * \frac{2}{1} = \frac{6}{1}$ (Boxed answer 6)

Computation

$$\frac{3}{4} + \frac{1}{2}$$

$$\frac{3}{4} = \frac{3}{4}$$

$$\frac{1}{2} \xrightarrow{*2} \frac{2}{4}$$

$$\xrightarrow{*2}$$

$$\frac{3}{4} + \frac{2}{4} =$$

$$\boxed{\frac{5}{4}}$$

Algebra

$$\begin{aligned} X - \frac{3}{4} &= \frac{1}{2} \\ + \frac{3}{4} &+ \frac{3}{4} \end{aligned}$$

Algebra

$$\begin{aligned} X - 2 &= 3 \\ + 2 &+ 2 \end{aligned}$$

$$\boxed{X = 5}$$

$$X = \frac{1}{2} + \frac{3}{4}$$

$$\frac{2}{4} + \frac{3}{4} = \frac{5}{4}$$

$$\boxed{X = \frac{5}{4}}$$

$$X + 2\frac{3}{7} = 5\frac{1}{3}$$

$$- 2\frac{3}{7} \quad - 2\frac{3}{7}$$

$$\begin{aligned} &5\frac{1}{3} \\ - &2\frac{3}{7} \\ \hline \end{aligned}$$

$$\begin{aligned} &\frac{1}{3} \xrightarrow{*7} \frac{7}{21} \\ &\frac{2}{7} \xrightarrow{*3} \frac{6}{21} \\ &\frac{3}{7} \xrightarrow{*3} \frac{9}{21} \\ \hline &\frac{3}{7} = \frac{9}{21} \end{aligned}$$

$$X = 5\frac{1}{3} - 2\frac{3}{7}$$

$$\begin{aligned} &4 \cancel{7} \frac{7}{21} + \frac{21}{21} \\ - &2 \frac{9}{21} \\ \hline \end{aligned}$$

$$\begin{aligned} &4 \frac{28}{21} \\ - &2 \frac{9}{21} \\ \hline &\boxed{2 \frac{19}{21}} \end{aligned}$$

$$X - \frac{8}{7} = 6\frac{1}{8}$$

$$+ \frac{8}{7} \quad + \frac{8}{7}$$

$$X = 6\frac{1}{8} + \frac{8}{7}$$

$$\frac{1}{8} \xrightarrow{*7} \frac{7}{56}$$

$$\frac{8}{7} \xrightarrow{*8} \frac{64}{56}$$

$$6\frac{7}{56} + \frac{64}{56}$$

$$\frac{64}{56} = 56 \overline{) 64}$$

$$\underline{- 56}$$

$$8$$

$$6\frac{7}{56} + 1\frac{8}{56}$$

$7\frac{15}{56}$

1.)

$$X - 4\frac{1}{5} = 6\frac{7}{8}$$

$$+ 4\frac{1}{5} \quad + 4\frac{1}{5}$$

2.)

$$X + \frac{8}{9} = 3\frac{1}{7}$$

$$- \frac{8}{9} \quad - \frac{8}{9}$$

$$X = 6\frac{7}{8} + 4\frac{1}{5}$$

$$\frac{7}{8} \xrightarrow{*5} \frac{35}{40}$$

$$\frac{1}{5} \xrightarrow{*8} \frac{8}{40}$$

$$6\frac{35}{40} + 4\frac{8}{40}$$

$$10\frac{43}{40}$$

$$10 + 1\frac{3}{40} = \boxed{11\frac{3}{40}}$$

$$X = 3\frac{1}{7} - \frac{8}{9}$$

$$\frac{1}{7} \xrightarrow{*9} \frac{9}{63}$$

$$\frac{8}{9} \xrightarrow{*7} \frac{56}{63}$$

$$3\frac{9}{63} - \frac{56}{63}$$

$$2\frac{9}{63} - \frac{56}{63}$$

$$2\frac{72}{63}$$

$$\underline{- \frac{56}{63}} \quad - 0\frac{56}{63}$$

$$\boxed{2\frac{16}{63}}$$

