

Warm up: $-\frac{3}{2} - \frac{1}{2} = -\frac{4}{2} = -2$

Solve. $-\frac{6}{14} - \frac{7}{14} = -\frac{13}{14}$ | $-5\frac{1}{3} + 2\frac{1}{5} = -\frac{16}{3} + \frac{4}{5}$

1) $-\frac{3}{7} = \frac{1}{2} - \frac{4}{5}a$

$-\frac{1}{2} - \frac{1}{2}$

$-\frac{5}{4}\left(-\frac{13}{14}\right) = \left(-\frac{4}{5}a\right)\left(-\frac{5}{4}\right)$

$\frac{65}{56} = a$

$\frac{9}{56} = a$

2) $3x - 2\frac{1}{5} = -5\frac{1}{3}$

$+2\frac{1}{5} \quad +2\frac{1}{5}$

$\frac{3x}{3} = \frac{-\frac{47}{15}}{3}$ $-\frac{47}{15} \div \frac{3}{1}$

$x = -\frac{47}{45}$

$x = -1\frac{2}{45}$

$-\frac{47}{15} \cdot \frac{1}{3}$



$$\begin{array}{l}
 -3 + \frac{1}{4}x = -1\frac{2}{3} \\
 \begin{array}{l}
 \text{+3} \\
 \hline
 \end{array}
 \end{array}
 \quad
 \begin{array}{l}
 \frac{2}{3} + \frac{3}{1} \\
 \frac{-5}{3} + \frac{3}{1} \\
 \frac{-5}{3} + \frac{9}{3} = \frac{4}{3} \\
 \text{+3}
 \end{array}$$

$$\left(\frac{4}{1}\right) \frac{4}{3} = \frac{1}{4}x \left(\frac{4}{1}\right)$$

$$\frac{4}{1} \times \frac{4}{3} = \frac{16}{3} = 5\frac{1}{3}$$

$$x = 5\frac{1}{3}$$

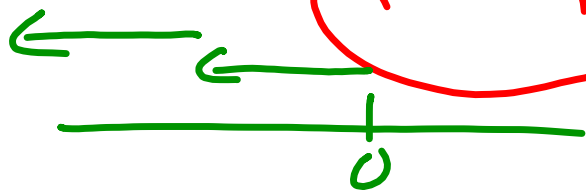
$$-2 \overset{+1}{\underset{\times 3}{\frac{1}{3}}} x + \frac{3}{5} = -\frac{3}{4} - \left(-\frac{3}{5}\right)$$

$$-\frac{2}{5} x - \left(\frac{12}{20}\right) = \frac{27}{20}$$

$$-\frac{2}{5} x - \frac{3}{5} = \frac{27}{20}$$

$$-\frac{2}{5} x = \frac{27}{20} + \frac{3}{5} = \frac{27}{20} + \frac{12}{20} = \frac{39}{20}$$

$$x = \frac{81}{140}$$



$$-\frac{15}{20} - \frac{12}{20} = -\frac{27}{20}$$

$$-\frac{15}{20} - \frac{12}{20} = -\frac{27}{20}$$

$$+\frac{27}{20}$$

$$\begin{aligned}
 & \frac{1}{4} = -\frac{4}{5}x - 2\frac{1}{8} \\
 & \left(\frac{19}{8}\right) = \left(-\frac{4}{5}x\right)\left(-\frac{5}{4}\right) \\
 & -\frac{19}{32} = x \\
 & -2\frac{3}{32} = x
 \end{aligned}$$

Handwritten notes in red:

- Vertical text on the left: $\frac{1}{4} = -\frac{4}{5}x - 2\frac{1}{8}$
- Vertical text below it: $\frac{19}{8}$
- Vertical text below that: $-\frac{4}{5}x$
- Vertical text below that: $-\frac{5}{4}$
- Vertical text on the right: $+\frac{2}{8}$