

Do Now

Solve for x

$$1) \frac{x-3}{4} + \frac{1}{8} = \frac{5}{8}$$
$$\frac{-\frac{1}{8} \quad -\frac{1}{8}}{\quad}$$

$$4 \left(\frac{x-3}{4} \right) = \left(\frac{4}{8} \right) 4 \rightarrow \text{or} \rightarrow$$

$$x-3 = 2$$
$$\begin{array}{r} +3 \quad +3 \\ \hline \boxed{x=5} \end{array}$$

$$\cancel{\frac{x-3}{4} = \frac{4}{8}}$$

$$8(x-3) = 16$$
$$8x - 24 = 16$$
$$\begin{array}{r} +24 \quad +24 \\ \hline 8x = 40 \\ \frac{8x}{8} = \frac{40}{8} \\ \boxed{x=5} \end{array}$$

$$2) \frac{x-6}{5} + \frac{2}{10} = \frac{4}{10}$$
$$\frac{-\frac{2}{10} \quad -\frac{2}{10}}{\quad}$$

$$5 \left(\frac{x-6}{5} \right) = \left(\frac{2}{10} \right) 5 \rightarrow \text{or} \rightarrow$$

$$x-6 = 1$$
$$\begin{array}{r} +6 \quad +6 \\ \hline \boxed{x=7} \end{array}$$

$$\cancel{\frac{x-6}{5} = \frac{2}{10}}$$

$$10(x-6) = 10$$
$$10x - 60 = 10$$
$$\begin{array}{r} +60 \quad +60 \\ \hline 10x = 70 \\ \frac{10x}{10} = \frac{70}{10} \\ \boxed{x=7} \end{array}$$