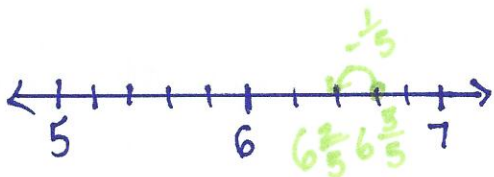


Name \_\_\_\_\_

Date \_\_\_\_\_

1. Subtract. Model with a number line or the arrow way.

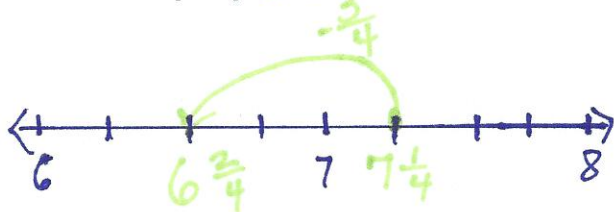
a.  $6\frac{3}{5} - \frac{1}{5} = 6\frac{2}{5}$



b.  $4\frac{9}{12} - \frac{7}{12} = 4\frac{2}{12}$

$$4\frac{9}{12} - \frac{7}{12} \rightarrow 4\frac{2}{12}$$

c.  $7\frac{1}{4} - \frac{3}{4} = 6\frac{2}{4}$



d.  $8\frac{3}{8} - \frac{5}{8} = 7\frac{6}{8}$

$$8\frac{3}{8} - \frac{5}{8} \rightarrow 8 - \frac{2}{8} \rightarrow 7\frac{6}{8}$$

2. Use decomposition to subtract the fractions. Model with a number line or the arrow way.

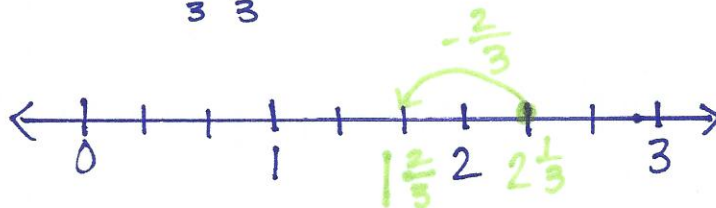
a.  $2\frac{2}{5} - \frac{4}{5} = 1\frac{3}{5}$

$$\begin{array}{c} \wedge \\ \frac{2}{5} \quad \frac{2}{5} \end{array}$$

$$2\frac{2}{5} - \frac{2}{5} \rightarrow 2 - \frac{2}{5} \rightarrow 1\frac{3}{5}$$

b.  $2\frac{1}{3} - \frac{2}{3} = 1\frac{2}{3}$

$$\begin{array}{c} \wedge \\ \frac{1}{3} \quad \frac{1}{3} \end{array}$$



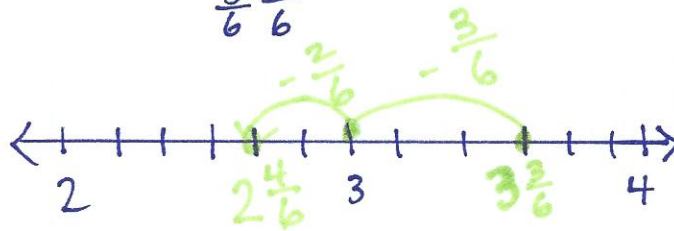
c.  $4\frac{1}{6} - \frac{4}{6} = 3\frac{3}{6}$

$$\begin{array}{c} \wedge \\ \frac{1}{6} \quad \frac{3}{6} \end{array}$$

$$4\frac{1}{6} - \frac{1}{6} \rightarrow 4 - \frac{3}{6} \rightarrow 3\frac{3}{6}$$

d.  $3\frac{3}{6} - \frac{5}{6} = 2\frac{4}{6}$

$$\begin{array}{c} \wedge \\ \frac{3}{6} \quad \frac{2}{6} \end{array}$$

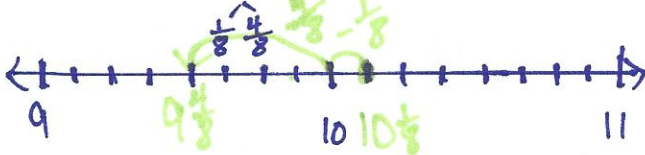


$$e. 9\frac{3}{8} - \frac{7}{8} = 8\frac{4}{8}$$

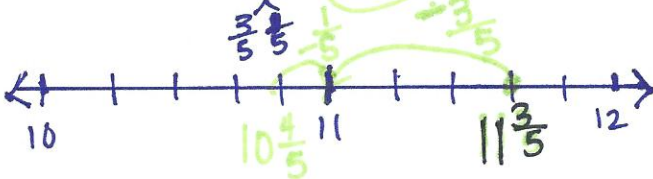
$$\begin{array}{r} \phantom{9} \frac{3}{8} \\ \phantom{9} \frac{4}{8} \\ \hline \phantom{9} \frac{7}{8} \end{array}$$

$$9\frac{3}{8} \xrightarrow{-\frac{7}{8}} 9\frac{4}{8} \xrightarrow{-\frac{7}{8}} 8\frac{4}{8}$$

$$g. 10\frac{1}{8} - \frac{5}{8} = 9\frac{4}{8}$$



$$i. 11\frac{3}{5} - \frac{4}{5} = 10\frac{4}{5}$$



$$f. 7\frac{1}{10} - \frac{6}{10} = 6\frac{5}{10}$$

$$\begin{array}{r} \phantom{7} \frac{1}{10} \\ \phantom{7} \frac{5}{10} \\ \hline \phantom{7} \frac{6}{10} \end{array}$$

$$7\frac{1}{10} \xrightarrow{-\frac{6}{10}} 7\frac{5}{10} \xrightarrow{-\frac{6}{10}} 6\frac{5}{10}$$

$$h. 9\frac{4}{12} - \frac{7}{12} = 8\frac{9}{12}$$

$$\begin{array}{r} \phantom{9} \frac{4}{12} \\ \phantom{9} \frac{3}{12} \\ \hline \phantom{9} \frac{7}{12} \end{array}$$

$$9\frac{4}{12} \xrightarrow{-\frac{7}{12}} 9\frac{3}{12} \xrightarrow{-\frac{3}{12}} 8\frac{9}{12}$$

$$j. 17\frac{1}{9} - \frac{5}{9} = 16\frac{5}{9}$$

$$\begin{array}{r} \phantom{17} \frac{1}{9} \\ \phantom{17} \frac{4}{9} \\ \hline \phantom{17} \frac{5}{9} \end{array}$$

$$17\frac{1}{9} \xrightarrow{-\frac{5}{9}} 17 \xrightarrow{-\frac{4}{9}} 16\frac{5}{9}$$

3. Decompose the total to subtract the fractions.

$$a. 4\frac{1}{8} - \frac{3}{8} = 3\frac{1}{8} + \frac{5}{8} = 3\frac{6}{8}$$

$$3\frac{1}{8} \begin{array}{l} \swarrow 1 \\ \searrow \end{array} \text{ Answer provided}$$

$$b. 5\frac{2}{5} - \frac{3}{5} = 4\frac{2}{5} + \frac{2}{5} = 4\frac{4}{5}$$

$$4\frac{2}{5} \begin{array}{l} \swarrow 1 \\ \searrow \end{array}$$

$$c. 7\frac{1}{8} - \frac{3}{8} = 6\frac{1}{8} + \frac{5}{8} = 6\frac{6}{8}$$

$$6\frac{1}{8} \begin{array}{l} \swarrow 1 \\ \searrow \end{array}$$

$$d. 3\frac{3}{9} - \frac{4}{9} = 2\frac{3}{9} + \frac{5}{9} = 2\frac{8}{9}$$

$$2\frac{3}{9} \begin{array}{l} \swarrow 1 \\ \searrow \end{array}$$

$$e. 6\frac{3}{10} - \frac{7}{10} = 5\frac{3}{10} + \frac{3}{10} = 5\frac{6}{10}$$

$$5\frac{3}{10} \begin{array}{l} \swarrow 1 \\ \searrow \end{array}$$

$$f. 2\frac{5}{9} - \frac{8}{9} = 1\frac{5}{9} + \frac{1}{9} = 1\frac{6}{9}$$

$$1\frac{5}{9} \begin{array}{l} \swarrow 1 \\ \searrow \end{array}$$