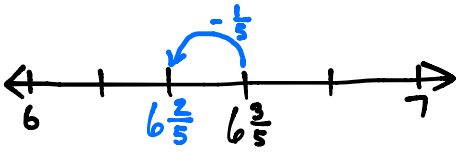
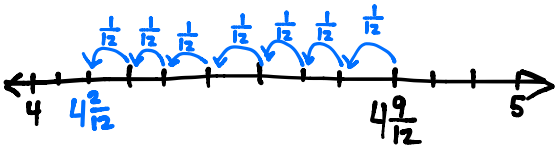
Name _____ Date _____

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

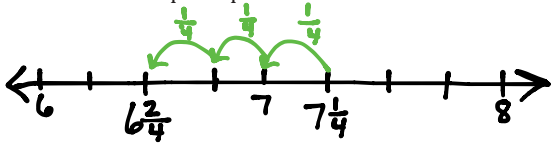
a. $6\frac{3}{5} - \frac{1}{5} = 6\frac{2}{5}$



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

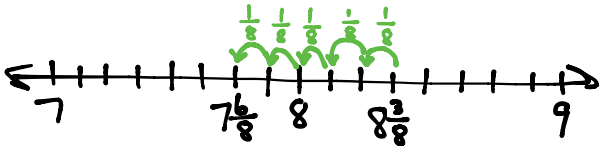


c. $7\frac{1}{4} - \frac{3}{4} = 6\frac{2}{4}$



$7\frac{1}{4} \xrightarrow{-\frac{1}{4}} 7 \xrightarrow{-\frac{2}{4}} 6\frac{3}{4}$

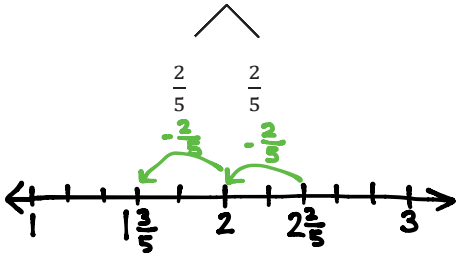
d. $8\frac{3}{8} - \frac{5}{8} = 7\frac{6}{8}$



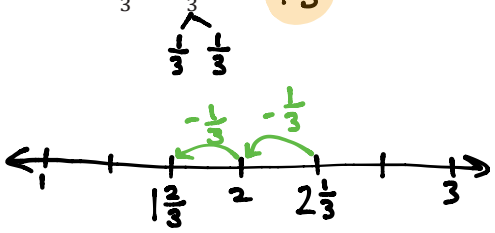
$8\frac{3}{8} \xrightarrow{-\frac{3}{8}} 8 \xrightarrow{-\frac{2}{8}} 7\frac{6}{8}$

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

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



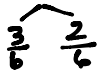
b. $2\frac{1}{3} - \frac{2}{3} = 1\frac{2}{3}$



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

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

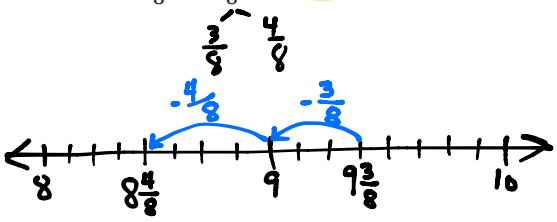
d. $3\frac{3}{6} - \frac{5}{6} = 2\frac{4}{6}$



$3\frac{3}{6} \xrightarrow{-\frac{3}{6}} 3 \xrightarrow{-\frac{2}{6}} 2\frac{4}{6}$

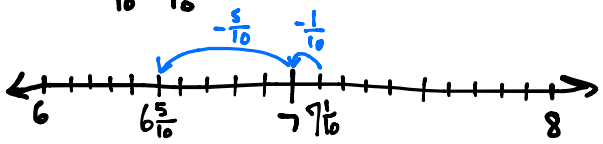
e. $9\frac{3}{8} - \frac{7}{8} = 8\frac{4}{8}$

$3\frac{3}{8}$ $\frac{4}{8}$



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

$\frac{1}{10}$ $\frac{5}{10}$



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

$\frac{1}{8}$ $\frac{4}{8}$

$10\frac{1}{8} \xrightarrow{-\frac{1}{8}} 10 \xrightarrow{-\frac{4}{8}} 9\frac{4}{8}$

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

$\frac{4}{12}$ $\frac{3}{12}$

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

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

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

$11\frac{3}{5} \xrightarrow{-\frac{3}{5}} 11 \xrightarrow{-\frac{1}{5}} 10\frac{4}{5}$

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

$\frac{1}{9}$ $\frac{4}{9}$

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

3. Decompose the total to subtract the fractions.

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

$3\frac{1}{8}$ 1

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

$4\frac{2}{5}$ 1

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

$6\frac{1}{8}$ 1

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

$2\frac{3}{9}$ 1

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

$5\frac{3}{10}$ 1

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

$1\frac{5}{9}$ 1