

Name Jack Date _____

1. Write a related addition sentence. Subtract by counting on. Use a number line or the arrow way to help. The first one has been partially done for you.

a. $3\frac{1}{3} - 1\frac{2}{3} = 1\frac{2}{3}$
 $1\frac{2}{3} + \underline{\quad} = 3\frac{1}{3}$

b. $5\frac{1}{4} - 2\frac{3}{4} = 2\frac{2}{4}$
 $2\frac{3}{4} + \underline{\quad} = 5\frac{1}{4}$

2. Subtract, as shown in 2(a), by decomposing the fractional part of the number you are subtracting. Use a number line or the arrow way to help you.

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

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

c. $5\frac{1}{7} - 3\frac{6}{7} = 4\frac{3}{7} - \frac{6}{7} = 3\frac{6}{7}$

3. Subtract, as shown in 3(a), by decomposing to take one out.

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

$\begin{array}{c} 2\frac{1}{5} \\ \swarrow \quad \searrow \\ 2 \quad 1 \end{array}$

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

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

$$c. 8\frac{1}{10} - 2\frac{7}{10} = 6\frac{3}{10} - \frac{7}{10} = 5\frac{3}{10} + \frac{3}{10} = 5\frac{6}{10}$$

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

4. Solve using any method.

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

$$3\frac{3}{4} \xrightarrow{+\frac{1}{4}} 4 \xrightarrow{+2} 6 \xrightarrow{+\frac{1}{4}} 6\frac{1}{4}$$

$$b. 5\frac{1}{8} - 2\frac{7}{8} = 2\frac{2}{8}$$

$$2\frac{7}{8} \xrightarrow{+\frac{1}{8}} 3 \xrightarrow{+2} 5 \xrightarrow{+\frac{1}{8}} 5\frac{1}{8}$$

$$c. 8\frac{1}{12} - 3\frac{8}{12} = 5\frac{3}{12} - \frac{8}{12} = 4\frac{3}{12} + \frac{4}{12} = 4\frac{7}{12}$$

$\begin{array}{c} 4\frac{3}{12} \\ \swarrow \quad \searrow \\ 4 \quad 1 \end{array}$

$$d. 5\frac{1}{100} - 2\frac{99}{100} = 2\frac{4}{100}$$

$$2\frac{99}{100} \xrightarrow{+\frac{1}{100}} 3 \xrightarrow{+2} 5 \xrightarrow{+\frac{1}{100}} 5\frac{1}{100}$$