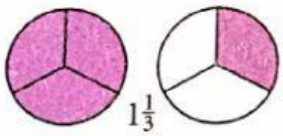
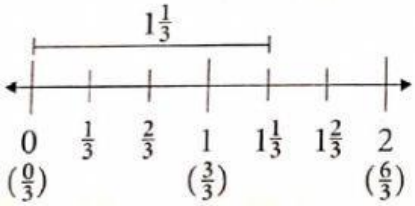
Adding and Subtracting Mixed Numbers

Fact:

A **mixed number** contains a whole number and a fraction.



$1\frac{1}{3}$



Steps to add and subtract mixed numbers:

1. Add the fractions.
2. Add the whole numbers.

Example:

$$\begin{array}{r} 4\frac{1}{3} \\ +\,5\frac{1}{3} \\ \hline 9\frac{2}{3} \end{array}$$

$9\frac{2}{3}$ is read *nine and two thirds.*

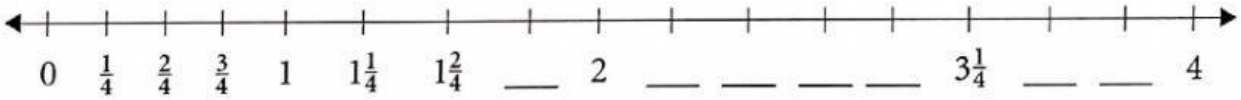
Class Practice

(Green-lettered problems are additional practice.)

1. Type: m for mixed number, w for whole, f for fraction

$\frac{5}{8}$ 17 $\frac{2}{9}$ $3\frac{1}{4}$ $19\frac{5}{7}$ 24 $\frac{6}{11}$ 419

2. Fill in the missing numbers on the number line. Read each number.



3. Add these mixed numbers.

a. $\begin{array}{r} 50\frac{3}{8} \\ +\ 9\frac{2}{8} \\ \hline \end{array}$

b. $\begin{array}{r} 24\frac{3}{11} \\ +72\frac{5}{11} \\ \hline \end{array}$

c. $\begin{array}{r} 156\frac{2}{9} \\ +297\frac{2}{9} \\ \hline \end{array}$

d. $\begin{array}{r} 16\frac{7}{13} \\ +23\frac{2}{13} \\ \hline \end{array}$

e. $\begin{array}{r} 206\frac{12}{17} \\ +418\frac{4}{17} \\ \hline \end{array}$

4. Subtract these mixed numbers.

a. $\begin{array}{r} 109\frac{4}{7} \\ -\ 48\frac{2}{7} \\ \hline \end{array}$

b. $\begin{array}{r} 300\frac{8}{9} \\ -\ 27\frac{3}{9} \\ \hline \end{array}$

c. $\begin{array}{r} 625\frac{9}{11} \\ -406\frac{6}{11} \\ \hline \end{array}$

d. $\begin{array}{r} 19\frac{3}{4} \\ -\ 7\frac{2}{4} \\ \hline \end{array}$

e. $\begin{array}{r} 4\frac{6}{17} \\ -2\frac{1}{17} \\ \hline \end{array}$

f. $20\frac{7}{11} - 6\frac{3}{11} =$ ____

g. $18\frac{10}{13} - 9\frac{5}{13} =$ ____

h. $500\frac{7}{8} - 125\frac{6}{8} =$ ____

LIVEWORKSHEETS

5. **Convert.**

a. 9 da. = _____ hr. b. 48 in. = _____ ft. d. 2 lb. = _____ oz.

$56\overline{)2184}$

$$\begin{array}{r} 906 \\ \times\ 578 \\ \hline \end{array}$$

b. Mrs. Wang needs $2\frac{1}{4}$ cups self-rising flour, $1\frac{1}{4}$ cups sugar, and $\frac{1}{4}$ cup cocoa in her recipe. How many cups of dry ingredients does she need?

c. Mr. Taylor bought 6 gallons of ice cream for his junior boys' Sunday school party. How many quarts did he buy?

LIVEWORKSHEETS