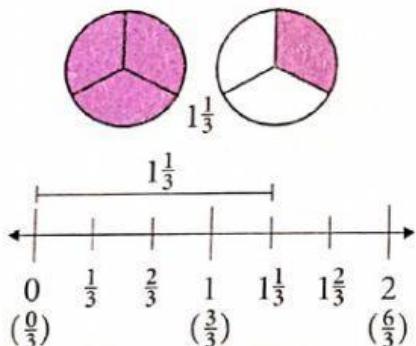


Adding and Subtracting Mixed Numbers

Fact:

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



Steps to add and subtract mixed numbers:

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

Example:

$$\begin{array}{r} 4\frac{1}{3} \text{ (shaded circles)} \\ + 5\frac{1}{3} \text{ (shaded circles)} \\ \hline 9\frac{2}{3} \text{ (shaded circles)} \end{array}$$

$9\frac{2}{3}$ 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

$\frac{2}{9}$

$3\frac{1}{4}$

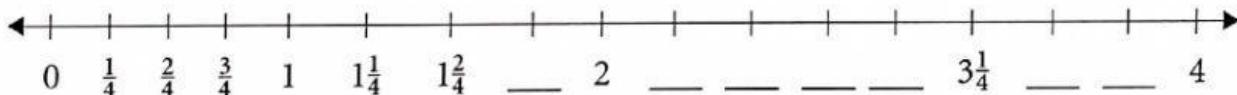
$19\frac{5}{7}$

24

$\frac{6}{11}$

419

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



3. Add these mixed numbers.

a. $50\frac{3}{8}$
+ $9\frac{2}{8}$

b. $24\frac{3}{11}$
+ $72\frac{5}{11}$

c. $156\frac{2}{9}$
+ $297\frac{2}{9}$

d. $16\frac{7}{13}$
+ $23\frac{2}{13}$

e. $206\frac{12}{17}$
+ $418\frac{4}{17}$

4. Subtract these mixed numbers.

a. $109\frac{4}{7}$
- $48\frac{2}{7}$

b. $300\frac{8}{9}$
- $27\frac{3}{9}$

c. $625\frac{9}{11}$
- $406\frac{6}{11}$

d. $19\frac{3}{4}$
- $7\frac{2}{4}$

e. $4\frac{6}{17}$
- $2\frac{1}{17}$

f. $20\frac{7}{11} - 6\frac{3}{11} = \underline{\hspace{2cm}}$

g. $18\frac{10}{13} - 9\frac{5}{13} = \underline{\hspace{2cm}}$

h. $500\frac{7}{8} - 125\frac{6}{8} = \underline{\hspace{2cm}}$

5. Convert.

a. $9 \text{ da.} = \underline{\quad} \text{ hr.}$ b. $48 \text{ in.} = \underline{\quad} \text{ ft.}$

d. $2 \text{ lb.} = \underline{\quad} \text{ oz.}$

$$\begin{array}{r} 906 \\ 56 \overline{) 2184} \\ \times 578 \\ \hline \end{array}$$

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?