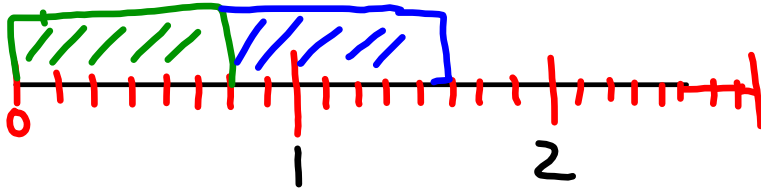


Write addition statements



Jumps from 0 to 1
Bottom
 $() + () = ()$
Same denominators
So add tops
Reduce

Write addition statement



Bottom —

Reduce \rightarrow \div both top and bottom by same #

a) $\frac{9}{12}$

b) $\frac{15}{35}$

c) $\frac{42}{16}$

Change Mixed to improper

a) $5\frac{3}{7}$

b) $6\frac{2}{9}$

c) $4\frac{2}{5}$

Change Improper to mixed

a) $\frac{15}{2}$

b) $\frac{57}{8}$

c) $\frac{92}{9}$

Add the following

a) $\frac{2}{7} + 1\frac{4}{7}$

b) $2\frac{4}{5} + 3\frac{1}{10}$

c) $1\frac{5}{8} + \frac{11}{12}$

Subtract

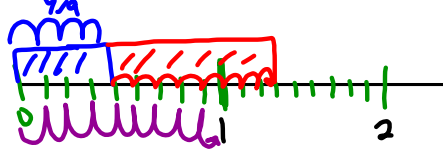
a) $4\frac{3}{5} - 2\frac{1}{10}$

b) $\frac{11}{12} - \frac{3}{4}$

c) $\frac{7}{8} - \frac{1}{5}$

d) $4 - \frac{6}{11}$

Write addition statement



9 Jumps from 0 to 1
Bottom

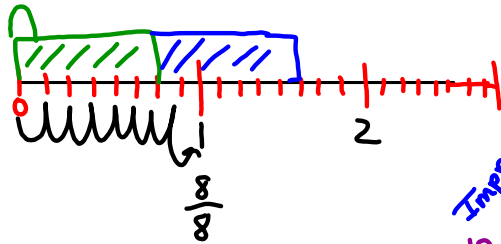
$$\left(\frac{4}{9}\right) + \left(\frac{8}{9}\right) = \left(\frac{12}{9}\right)$$

Same Denominators
So add tops

$$\frac{4}{9} + \frac{8}{9} = \frac{4+8}{9} = \frac{12}{9}$$

Reduce

Write addition statement



Bottom 8

$$\left(\frac{6}{8}\right) + \left(\frac{7}{8}\right) = \frac{13}{8} = 1\frac{5}{8}$$

Reduce

Improper
Mixed

$$\frac{3}{4} + \frac{7}{8} = 1\frac{5}{8}$$

Reduce → ÷ both top and bottom by same #

a) $\frac{9 \div 3}{12 \div 3}$

$$= \frac{3}{4}$$

b) $\frac{15 \div 5}{35 \div 5}$

$$= \frac{3}{7}$$

c) $\frac{42 \div 2}{16 \div 2}$

$$= \frac{21}{8}$$

Change Mixed to improper

a) $5\frac{3}{7}$
 $\frac{38}{7}$

b) $6\frac{2}{9}$
 $\frac{56}{9}$

c) $4\frac{2}{5}$
 $\frac{22}{5}$

Change Improper to mixed

a) $\frac{15}{2}$ b) $\frac{57}{8}$ c) $\frac{92}{9}$

$7\frac{1}{2}$ $7\frac{1}{8}$ $10\frac{2}{9}$

← look in how many full groups

Add the following

a) $\frac{2}{7} + \frac{4}{7}$ b) $2\frac{4}{5} + 3\frac{1}{10}$

$\frac{2}{7} + \frac{4}{7}$ $2 \times \frac{14}{5} + \frac{31}{10}$

Same bottom, add top $\frac{28}{10} + \frac{31}{10}$

$= \frac{13}{7}$ Improper $= \frac{59}{10}$

$= 1\frac{6}{7}$

c) $\frac{5}{8} + \frac{11}{12}$

$3 \times \frac{13}{8} + \frac{11 \times 2}{12 \times 2}$ Need C.D.

$\frac{39}{24} + \frac{22}{24}$ Add top

$= \frac{61}{24}$

$= 2\frac{13}{24}$

Subtract

a) $4\frac{3}{5} - 2\frac{1}{10}$ b) $\frac{11}{12} - \frac{3 \times 3}{4 \times 3}$

$2 \times \frac{23}{5} - \frac{21}{10}$ $\frac{11}{12} - \frac{9}{12}$

$\frac{46}{10} - \frac{21}{10}$ $\frac{2}{12}$ Reduce

$= \frac{25}{10}$ $= \frac{1}{6}$

$= 2\frac{5}{10} \div 5$ Reduce

$= 2\frac{1}{2}$

c) $\frac{7 \times 5}{8 \times 8} - \frac{1 \times 8}{5 \times 8}$ d) $4 - \frac{6}{11}$

$= \frac{35}{40} - \frac{8}{40}$ has a 1 as denominator

$= \frac{27}{40}$ $\frac{4 \times 11}{1 \times 11} - \frac{6}{11}$

$= \frac{44}{11} - \frac{6}{11}$

$= \frac{38}{11}$

$= 3\frac{5}{11}$

