

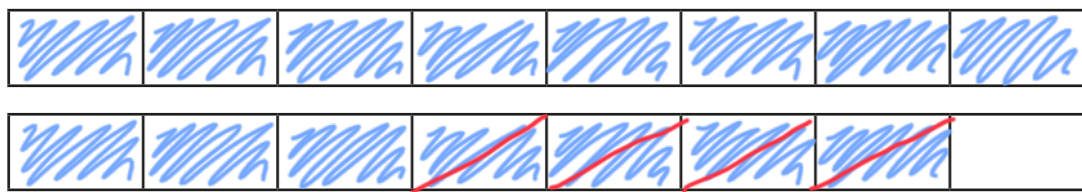
Subtract mixed numbers



1 Complete the subtractions.

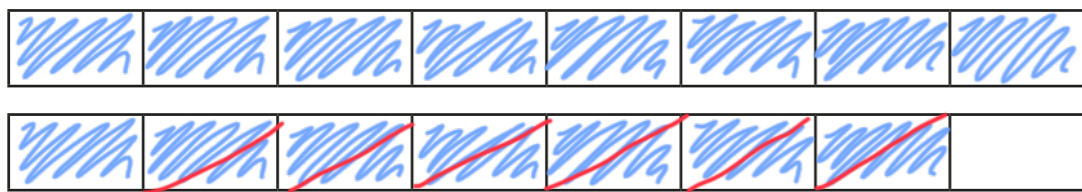
Use the bar models to help you.

a)



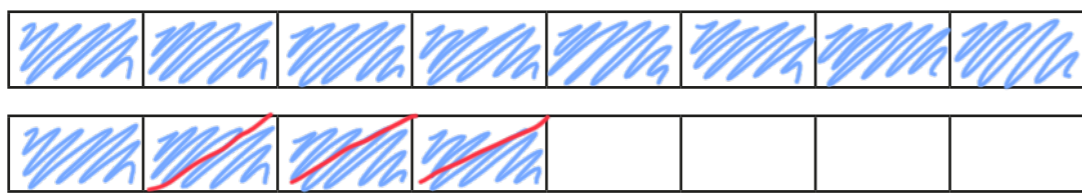
$$\frac{15}{8} - \frac{1}{2} = \boxed{1\frac{3}{8}}$$

b)



$$1\frac{7}{8} - \frac{3}{4} = \boxed{1\frac{1}{8}}$$

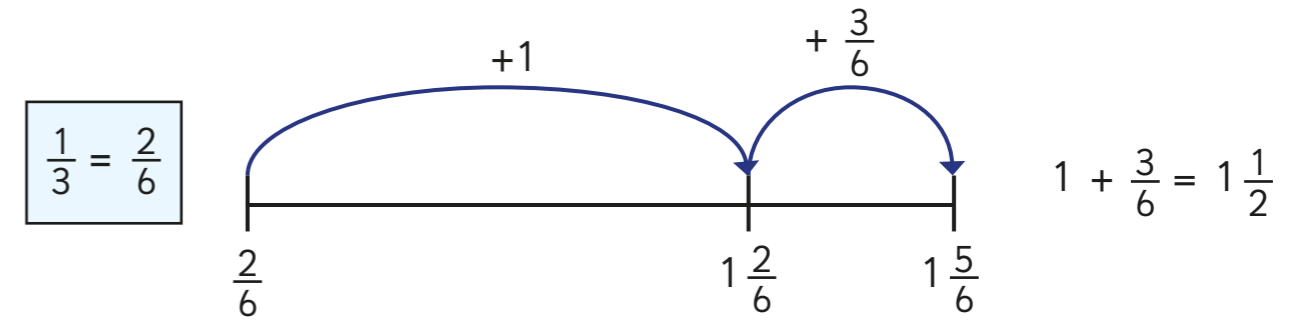
c)



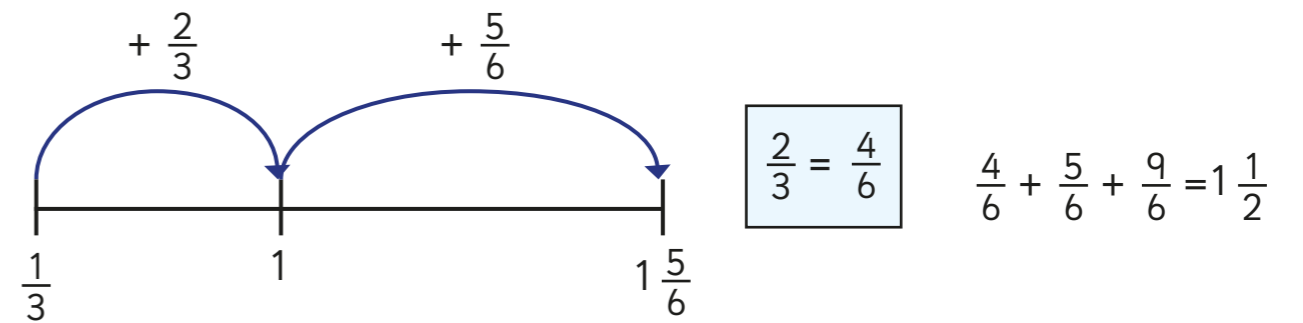
$$1\frac{1}{2} - \frac{3}{8} = \boxed{1\frac{1}{8}}$$

2 Dexter and Whitney are using number lines to work out $1\frac{5}{6} - \frac{1}{3}$

Dexter's method

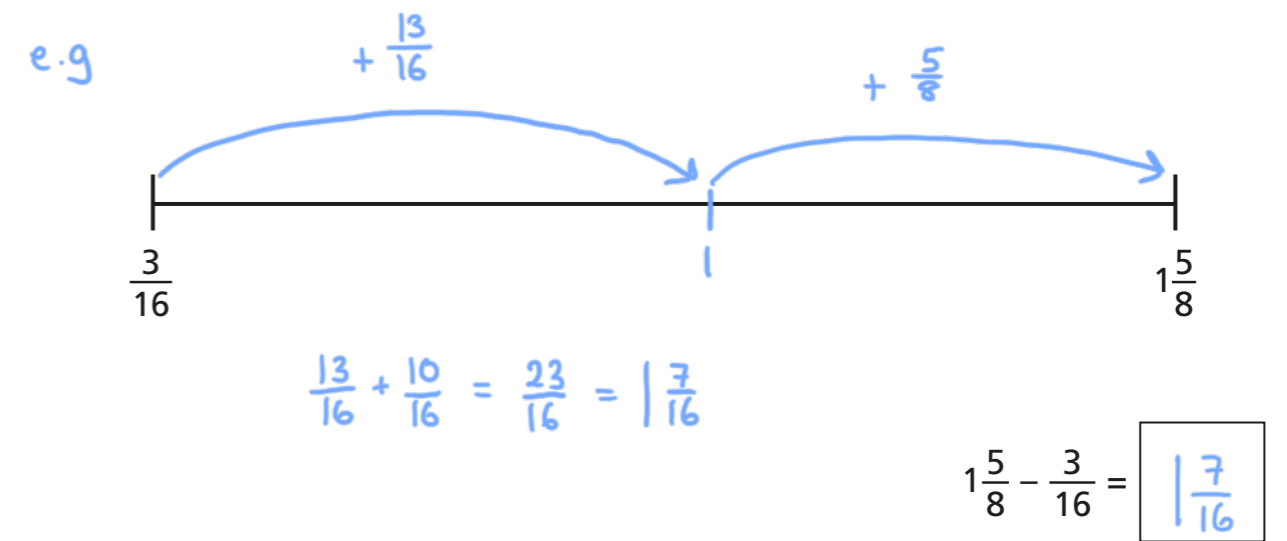


Whitney's method



What is the same and what is different about these methods?

Use one of the methods to work out $1\frac{5}{8} - \frac{3}{16}$



3 Complete the subtractions.

a) $3\frac{1}{4} - \frac{5}{24} = 3\frac{1}{24}$

d) $7\frac{5}{6} - \frac{13}{24} = 7\frac{7}{24}$

b) $3\frac{3}{16} - \frac{1}{8} = 3\frac{1}{16}$

e) $4\frac{4}{9} - \frac{4}{27} = 4\frac{8}{27}$

c) $2\frac{5}{6} - \frac{2}{3} = 2\frac{1}{6}$

f) $6\frac{11}{12} - \frac{3}{4} = 6\frac{1}{6}$

4 A jug contains $1\frac{3}{5}$ litres of orange juice.

Eva pours $\frac{4}{15}$ litres into a glass.

How much orange juice is left in the jug?



There are $1\frac{1}{3}$ litres of orange juice left in the jug.

5 Find three different ways to complete the calculation.

e.g.

$3\frac{1}{5} - \frac{3}{20} = 3\frac{1}{20}$

$3\frac{3}{5} - \frac{11}{20} = 3\frac{1}{20}$

$3\frac{2}{5} - \frac{7}{20} = 3\frac{1}{20}$

Are there any other ways to complete this calculation?

6 Three children take part in throwing competitions.

Here is the table of results.

| | Javelin | Shot Put | Discus |
|--------|-------------------|-------------------|--------------------|
| Dexter | $15\frac{1}{4}$ m | $7\frac{5}{12}$ m | $12\frac{3}{8}$ m |
| Amir | $13\frac{3}{8}$ m | $8\frac{1}{4}$ m | $12\frac{7}{8}$ m |
| Annie | $14\frac{1}{3}$ m | 9 m | $11\frac{5}{12}$ m |

Use the clues to complete the table.

- Annie's javelin throw is $\frac{11}{12}$ m less than Dexter's.
- Amir's shot put throw is $\frac{3}{4}$ m less than Annie's.
- Dexter's discus throw is $\frac{1}{2}$ m less than Amir's.