

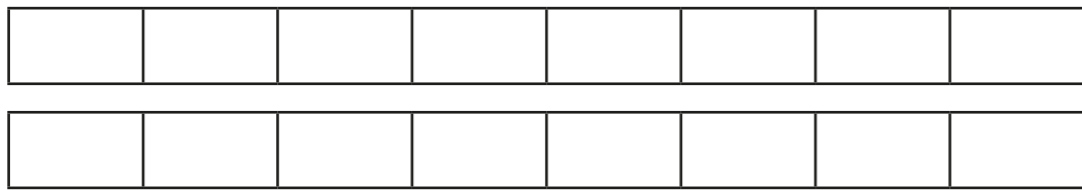
# Subtract mixed numbers



1 Complete the subtractions.

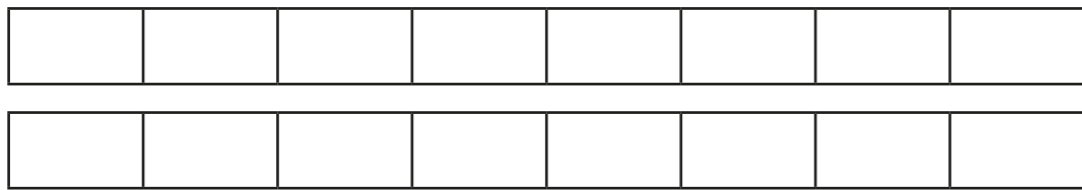
Use the bar models to help you.

a)



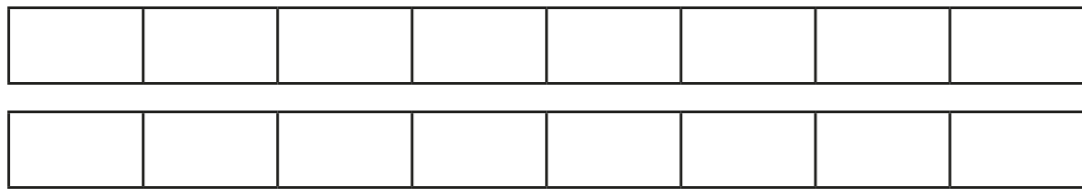
$$\frac{15}{8} - \frac{1}{2} = \square$$

b)



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

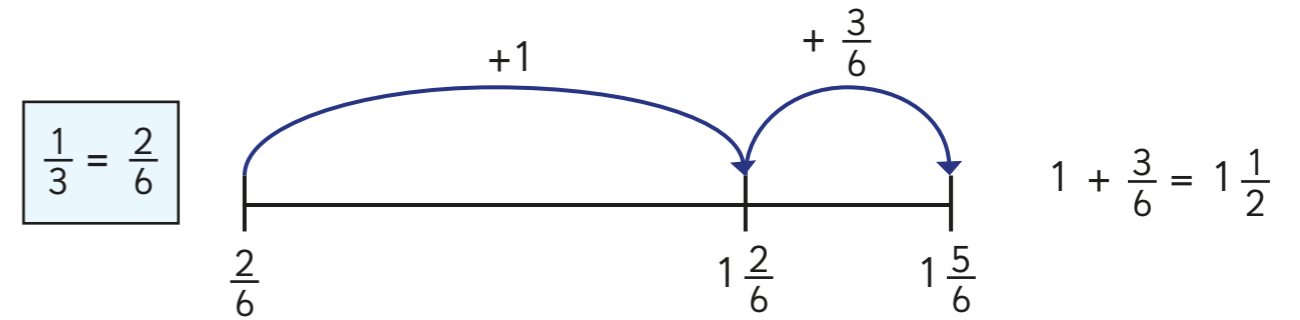
c)



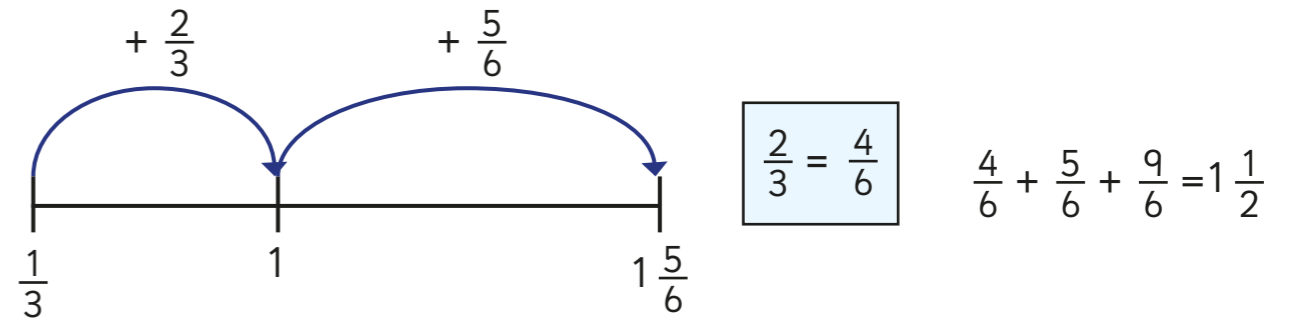
$$1\frac{1}{2} - \frac{3}{8} = \square$$

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

Dexter's method

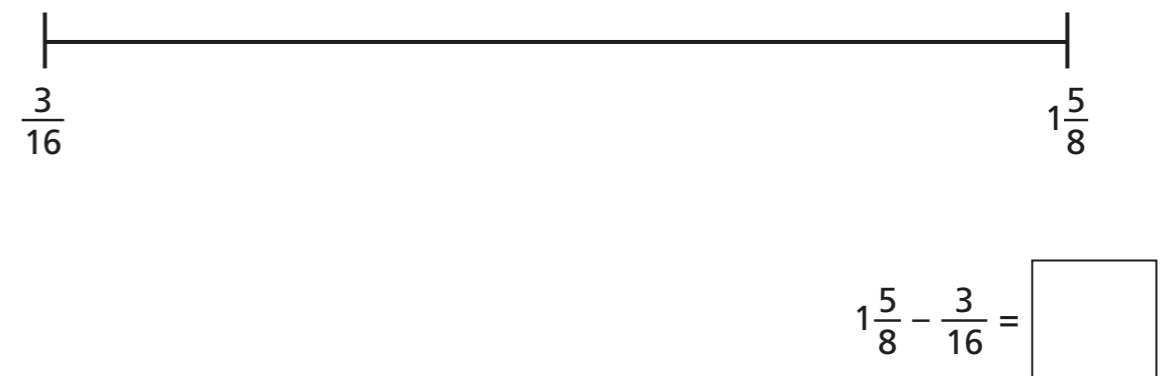


Whitney's method



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

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

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

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

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

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

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  $\square$  litres of orange juice left in the jug.

5 Find three different ways to complete the calculation.

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

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

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

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	
Amir	$13\frac{3}{8}$ m		$12\frac{7}{8}$ m
Annie		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.