## Add and subtract fractions from integers expressing the answer as a single fraction



What is the same about the answers to the three calculations?

$\frac{3}{4} + \frac{1}{4} =$	
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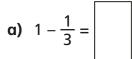
$$\frac{2}{5} + \frac{3}{5} =$$

$$\frac{1}{4} + \frac{1}{4} + \frac{2}{4} =$$

Use a bar model to explain why  $\frac{3}{5} + \frac{2}{5}$  is equal to 1



3 Use the bar models to work out the subtractions.



**b)** 
$$1 - \frac{2}{3} =$$

c) 
$$1 - \frac{3}{7} =$$

Work out the subtractions.

a) 
$$1 - \frac{1}{5} =$$

e) 
$$1 - \frac{7}{10} =$$

**b)** 
$$1 - \frac{2}{5} =$$

f) 
$$1 - \frac{9}{11} =$$

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

g) = 
$$1 - \frac{11}{20}$$

**d)** 
$$1 - \frac{4}{5} =$$

**h)** 
$$1 - \frac{7}{8} =$$

Compare answers with a partner.

Did you get the same answers? Discuss your methods.

Work out the additions.

a) 
$$1 + \frac{2}{5} =$$

$$2 + \frac{2}{5} =$$

$$3 + \frac{2}{5} =$$

$$7 + \frac{2}{5} =$$

**b)** 
$$15 + \frac{1}{3} =$$

$$15 + \frac{2}{3} =$$

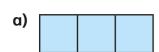
$$15 + \frac{3}{3} =$$

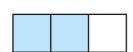
c) Is the statement true or false?

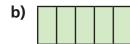
$$3 + \frac{5}{4} = 4\frac{1}{4}$$

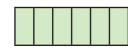
Talk about it with a partner.

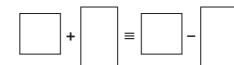
Write an addition and a subtraction for the models.



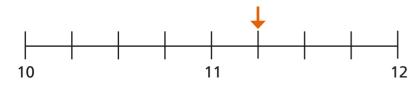








c)



7 a) Dora and Rosie are trying to work out  $9 - \frac{4}{11}$ What mistakes have they made?

Dora

$$9 - \frac{4}{11} = \frac{5}{11}$$

## Rosie

$$9 - \frac{4}{11} = \frac{99}{11} - \frac{4}{11}$$

So 
$$9 - \frac{4}{11} = \frac{95}{0}$$

- b) How would you calculate  $9 \frac{4}{11}$ Compare your method with a partner's.
- 8 Work out the subtractions.

a) 
$$3 - \frac{2}{5} =$$

c) 
$$10 - \frac{3}{4} =$$

**b)** 
$$8 - \frac{2}{3} =$$

**d)** 
$$7 - \frac{10}{19} =$$

There are 6 episodes in a series.

Brett has watched  $\frac{3}{4}$  of the first episode.

Exactly how many episodes does he need to watch to finish the series?

Kim orders 3 pizzas. Each pizza is sliced into 8 slices.

Kim has 3 slices and Tom has 4

Exactly how much pizza is left?

