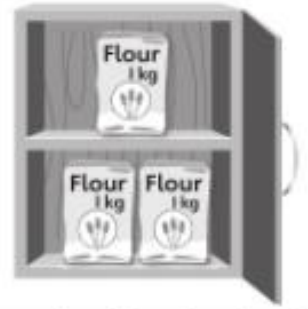
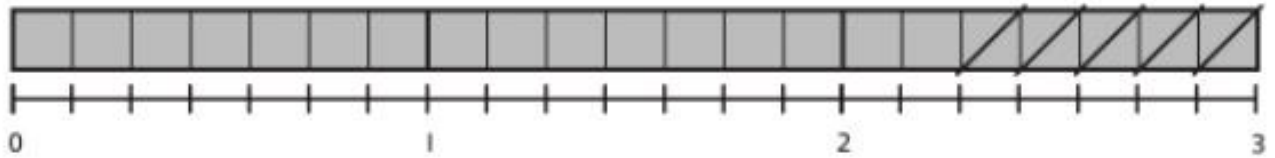


# Problem solving – adding and subtracting fractions



1 There is 3 kg of flour in a cupboard.

a) Holly uses  $\frac{5}{7}$  kg to make bread. How much flour is left in the cupboard?



$$3 - \frac{\square}{\square} = \square \frac{\square}{\square} - \frac{\square}{\square} = \square \frac{\square}{\square}$$

There is  $\square \frac{\square}{\square}$  kg of flour left in the cupboard.

b) Tulpesh uses  $\frac{6}{7}$  kg more flour than Holly to make bread. How much flour does Tulpesh use?

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square} \quad \text{Tulpesh uses } \square \text{ kg of flour.}$$

c) How much flour is used by Holly and Tulpesh in total?



$\square$  kg of flour is used in total.

- 2 A farmer ploughed  $\frac{5}{7}$  of an acre of his field in the morning and  $\frac{4}{7}$  of an acre in the afternoon.

An acre is a measure of land.



morning



afternoon



How much of his field did the farmer plough in total?



The farmer ploughed  acres of his field in total.

- 3 Abigail, Phoebe and Naomi have a bottle of juice.  
Abigail drinks  $\frac{3}{17}$  of the bottle.  
Phoebe drinks  $\frac{2}{17}$  more than Abigail.  
What fraction of the juice is remaining for Naomi?

First, I am going to find out how much Phoebe drinks and then how much Abigail and Phoebe drink altogether.



of the juice is remaining.



- 4 Fill in the empty boxes.

$$\frac{\square}{8} + \frac{\square}{8} - \frac{\square}{8} = \frac{7}{8}$$

How many ways can you find to complete it?

I can see three different ways!  
I wonder if there are more.



- 5 Axel picked  $\frac{1}{3}$  kg of strawberries and Catherine picked  $\frac{2}{3}$  kg of strawberries.

Esme ate  $\frac{3}{7}$  kg of the strawberries collected. What amount of strawberries were left?

**CHALLENGE**



kg of strawberries were left.

## Reflect

Write a story where adding or subtracting gives an answer of  $\frac{4}{q}$ .



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