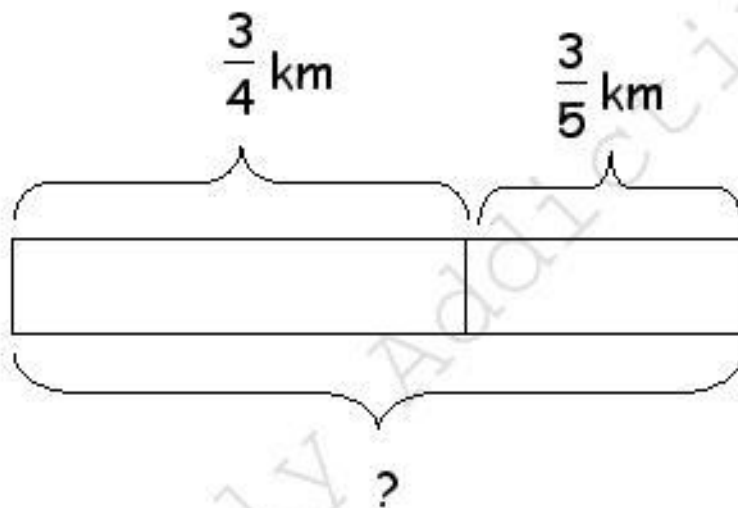


We can use models to solve word problems.

Example:

Wendy ran $\frac{3}{4}$ km on Monday and $\frac{3}{5}$ km further on Tuesday. How far did she run on Tuesday?



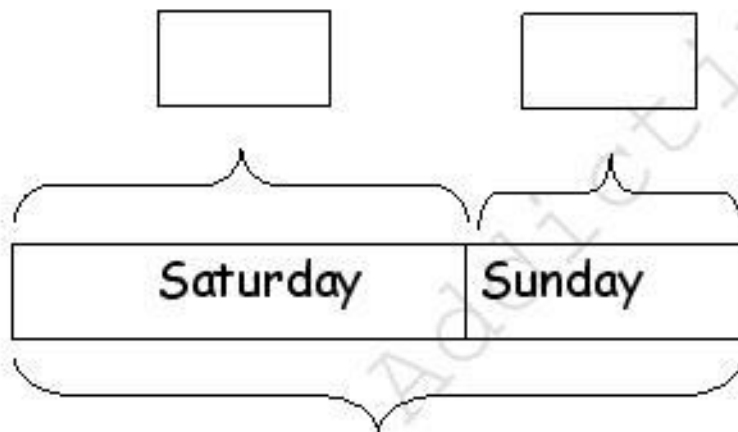
$$\begin{aligned}\frac{3}{4} + \frac{3}{5} &= \frac{15}{20} + \frac{12}{20} \\ &= \frac{27}{20} \\ &= 1\frac{7}{20} \text{ km}\end{aligned}$$

Wendy ran $1\frac{7}{20}$ km on Tuesday.

Fill in the blanks to solve the following word problems.

1) Mag jogged $\frac{7}{8}$ km on Saturday and $\frac{5}{6}$ km on Sunday.

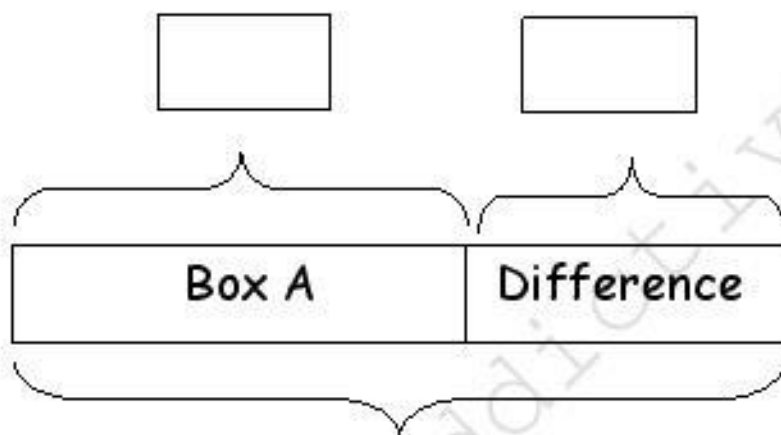
How far did she jog altogether over the weekend?



$$\frac{7}{8} + \frac{5}{6} = ?$$

Mag jogged over the weekend.

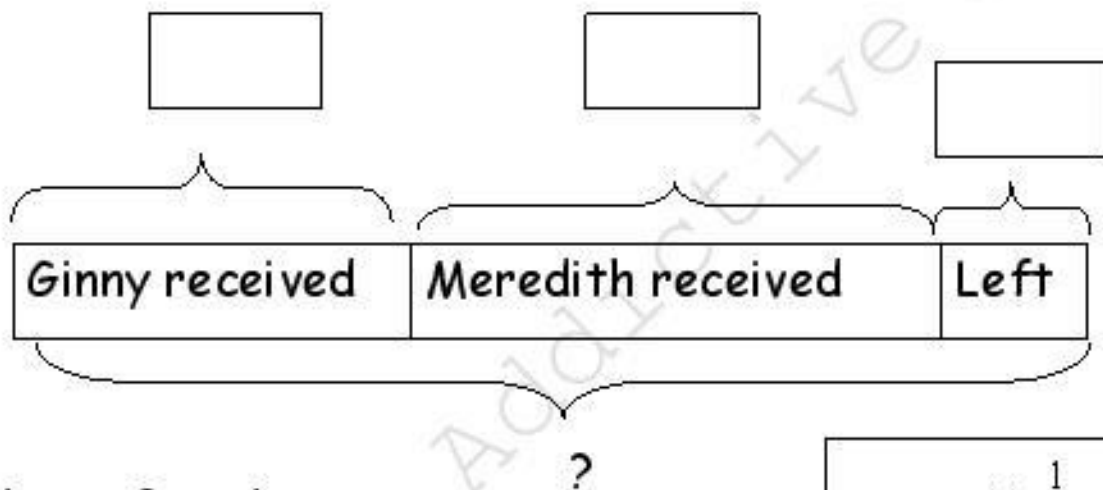
2) Box A has a mass $\frac{4}{9}$ kg. Box B is $\frac{1}{4}$ kg heavier than Box A. What is the mass of Box B?



$$\frac{4}{9} + \frac{1}{4} =$$

The mass of Box B is

3) After giving $1\frac{1}{2}$ kg of apples to Ginny and $2\frac{2}{3}$ kg of apples to Meredith, Helen had $\frac{1}{2}$ kg of apples left. What was the mass of apples that Helen had at first?



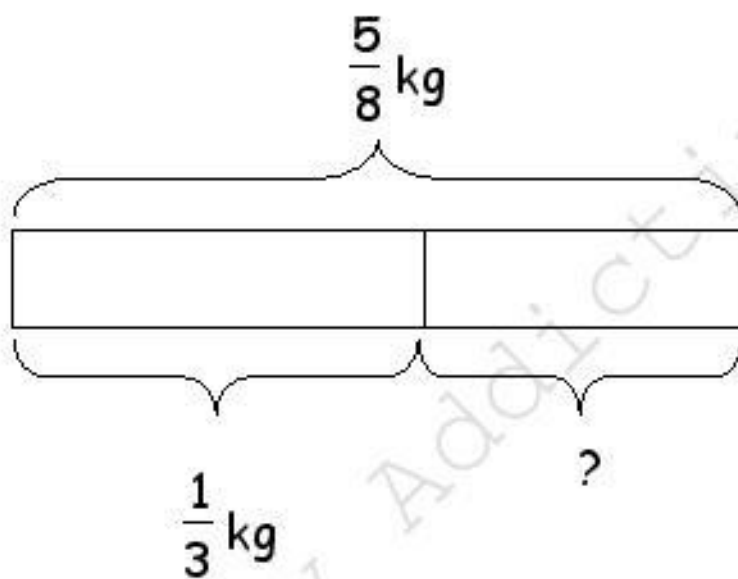
$$1\frac{1}{2} + 2\frac{2}{3} + \frac{1}{2} =$$

Hint: Add $1\frac{1}{2}$ and $\frac{1}{2}$ **first**.

Helen had of apples at first.

Example:

Mr Wong bought $\frac{5}{8}$ kg of meat. He used $\frac{1}{3}$ kg of it to cook some curry. How much meat is left?

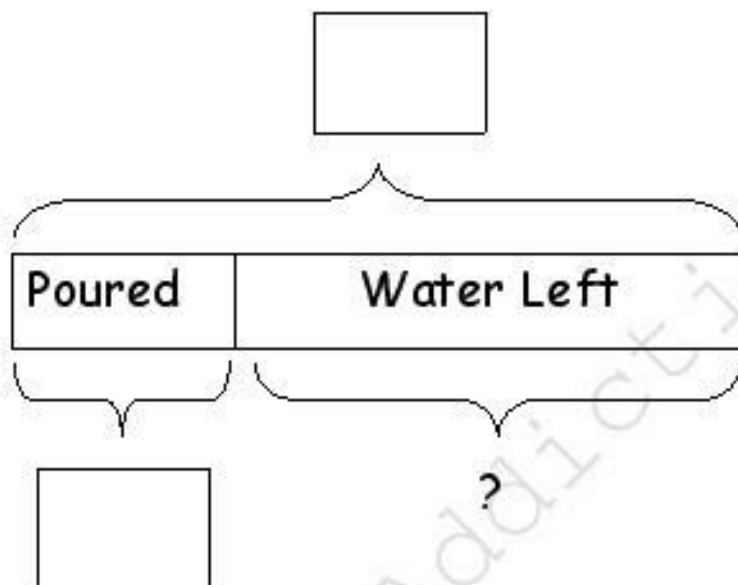


$$\frac{5}{8} - \frac{1}{3} = \frac{15}{24} - \frac{8}{24}$$

$$= \frac{7}{24} \text{ kg}$$

$\frac{7}{24}$ kg of meat is left.

4) There is $\frac{7}{9}$ l of water in a jug. Ben poured $\frac{1}{5}$ l of water away. How much water is left?

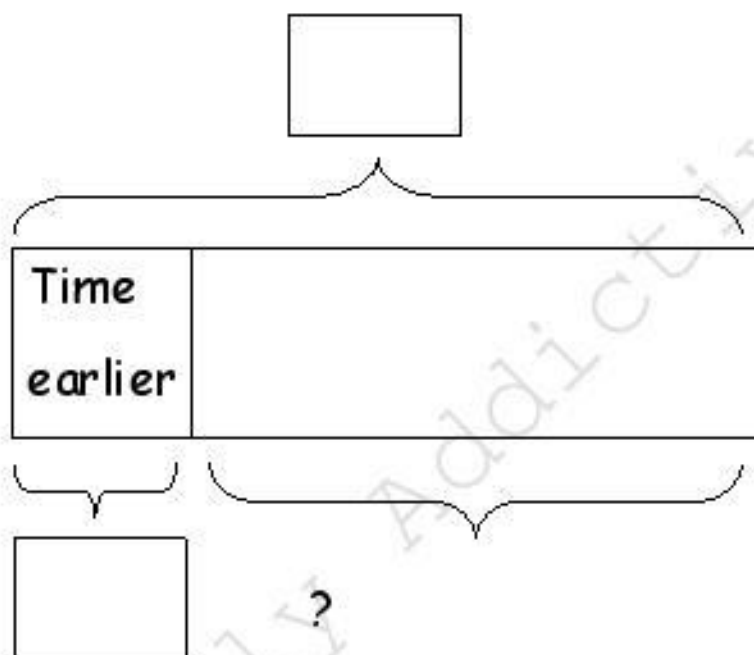


$$\frac{7}{9} - \frac{1}{5} =$$

of water is left.

5) Mr Lee usually takes 6h to drive from Singapore to Kuala Lumpur. He reached $\frac{5}{12}$ h earlier this time.

How long did he take?

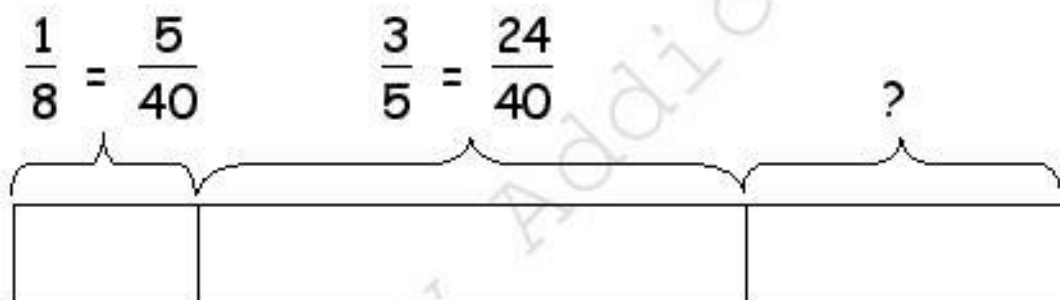


$$6 - \frac{5}{12} =$$

He took h.

Example:

Janice spent $\frac{1}{8}$ of her money on transport and $\frac{3}{5}$ of her money on food. She then saved the remaining amount of money. What fraction of her money did Janice save?



Note that the total amount that Janice has is equivalent to 1 whole.

1 whole = fraction money spent+ fraction of money saved

In order to find out what fraction of her money was saved, we must find out the total fraction of her money spent.

$$\frac{1}{8} + \frac{3}{5} = \frac{5}{40} + \frac{24}{40}$$
$$= \frac{29}{40}$$

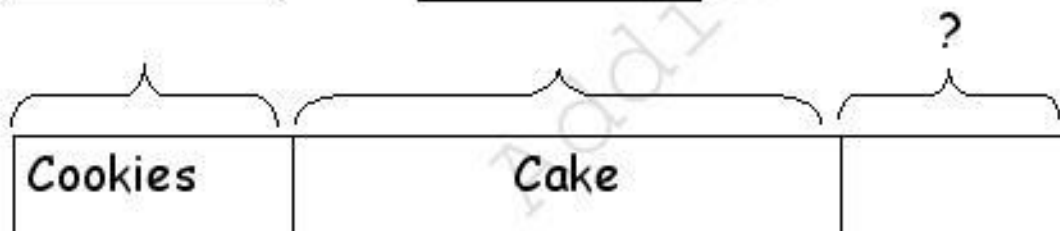
$$1 - \frac{29}{40} = \frac{40}{40} - \frac{29}{40}$$
$$= \frac{11}{40}$$

Janice saved $\frac{11}{40}$ of her money.

6) Mrs Lim bought some flour. She used $\frac{1}{3}$ kg of the flour to bake some cookies and $\frac{4}{7}$ kg of the flour to bake a cake. What fraction of the flour was left?

=

=



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

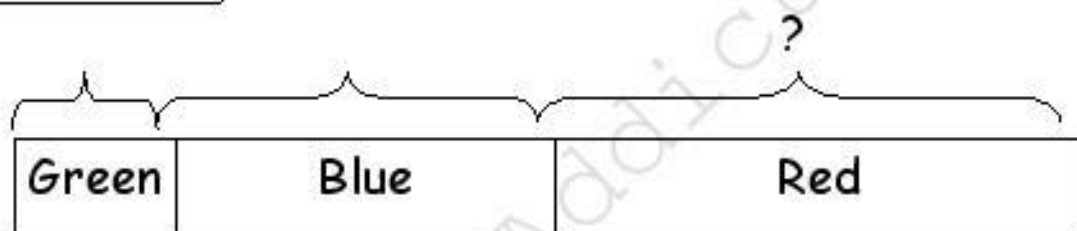
$$1 - \boxed{} =$$

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 of the flour was left.

7) Renee has some beads. $\frac{1}{9}$ of the beads is green. $\frac{1}{4}$ of the beads is blue and the remaining is red. What fraction of the beads is red?

$$\boxed{} =$$



$$\boxed{} =$$

$$\frac{1}{9} + \frac{1}{4} =$$

$$1 - \boxed{} =$$

$\boxed{}$ of the beads are red.

8) Denise drinks $\frac{7}{10}$ l of water in a day. How much water does she drink in 3 days?

Ans: _____

9) The sum of two fractions is $\frac{7}{8}$. If one fraction is $\frac{4}{5}$, what is the other fraction?

Ans: _____

10) Joanne mixed $\frac{7}{20}$ l of ribena syrup with $2\frac{1}{4}$ l of water to get a jug of ribena drink. How much ribena drink was there in the jug?

Ans: _____

11) Kayla is $1\frac{3}{10}$ m tall. She is $\frac{3}{8}$ m taller than her sister, Chelsey. How tall is Chelsey?

Ans: _____

Let's recall...

What is the relationship between fractions and division?

- We can see fractions as a form of division. For example, $3 \div 5 = \frac{3}{5}$. So, for the fraction $\frac{3}{5}$, we can take it as 3 parts out of 5 parts, or dividing 3 equally into 5 parts.
- Or, if we have $5 \div 3 = \frac{5}{3}$, then it is like dividing 5 equally into 3 parts.

Example:

Sally has 4 boxes of red beans. Each box of red bean has a mass of 6kg. She then divides the red beans equally into 7 packets. What is the mass of the red beans in each packet?

Total mass: $4 \times 6 = 24$

$$24 \div 7 = \frac{24}{7}$$
$$= 3\frac{3}{7} \text{ kg}$$

The mass of red beans in each packet is $3\frac{3}{7}$ kg

12) Elaine poured 4ℓ of milk equally into 20 cups. How much milk did each cup contain?

Ans: _____

13) A fruit seller divided 30kg of durians equally into 45 boxes. What is the mass of durians in each box?

Ans: _____

14) Junie baked 3 pizzas and she cut it equally into 15 portions. She then gave a portion to Joseph. What fraction of pizza did Joseph receive?

Ans: _____

15) Mrs Lee bought 7 cakes and shared them equally among her 4 children. What fraction of all the cakes will each child receive?

Ans: _____

16) Michelle has 6 bags of sweets, each with a mass of 3kg. She shared the sweets equally with her 39 classmates. What was the mass of sweets that each person receives?

Ans: _____