

1 In a class of 32 children, seven-eighths of the class have a brother or sister.

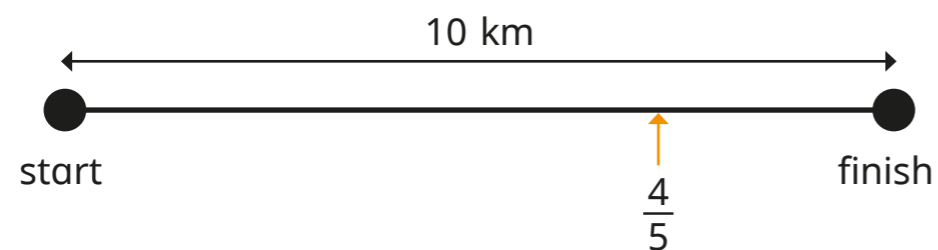
a) How many children have a brother or sister?

b) How many children do not have a brother or sister?

What do you notice about your answers?



2 Alex is taking part in a 10 km race.



She has run $\frac{4}{5}$ of the race.

What distance does she have left to run?

 km

How did you work it out?



3 Show that $\frac{4}{5}$ of 100 = 100 - $\frac{1}{5}$ of 100

4 Complete the calculations.

Show all your workings.

a) $\frac{7}{8}$ of 400 =

b) $\frac{3}{5}$ of £35 + $\frac{1}{5}$ of £35 = £

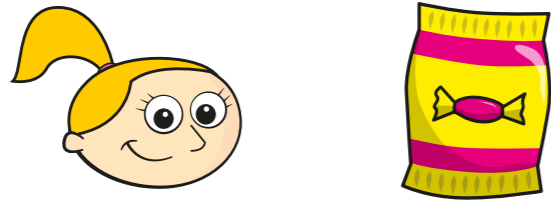
c) $\frac{3}{4}$ of 60p - $\frac{1}{2}$ of 18p = p

d) $\frac{7}{10}$ of 490 g + $\frac{3}{10}$ of 490 g = g

Compare methods with a partner.



5 Eva has a bag of 20 sweets.



She eats $\frac{1}{4}$ of the sweets.

She gives $\frac{1}{5}$ of the sweets that are left to Dora and 2 sweets to her mum.

How many sweets does Eva have left?

6 Whitney has a box of raisins.

She eats $\frac{1}{4}$ of the raisins and gives 3 to her brother.

She has 9 raisins left.

a) How many raisins did Whitney have before she gave some to her brother?

b) How many raisins were in the box at the start?

7 Dexter spends one third of his money. He has these coins left.



How much did Dexter spend?

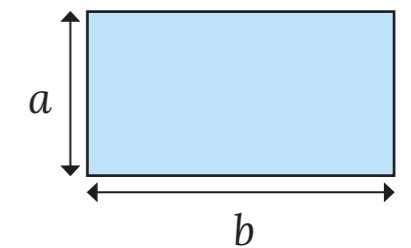
8 Here is a rectangle.

The perimeter of the rectangle is less than 30 cm.

a and b are whole numbers.

Side a is one half of the length of side b .

a) Give three possible pairs of values for a and b .



$$a = \square \quad b = \square$$

$$a = \square \quad b = \square$$

$$a = \square \quad b = \square$$

b) What is the greatest possible perimeter of the rectangle?

 cm