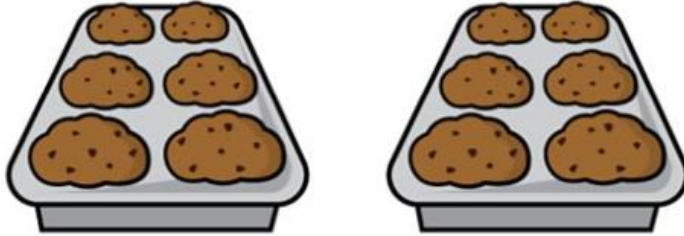


## Challenge 1

Eric bakes these two trays of muffins.



He eats 2 muffins.

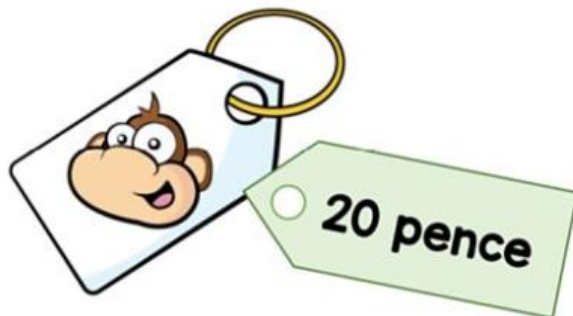
His dad eats 3 muffins.

His sister eats 4 muffins.

How many muffins does he have left?

## Challenge 2

Lola buys this key ring.



Her mum gives a quarter of the money.

She pays for the rest herself.

How much does she pay herself?

### Challenge 3



How old is the teacher?

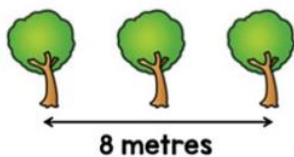
### Challenge 4

Ten trees are planted in a row.



The trees are spaced out equally.

The distance between the fourth and sixth tree is 8 metres.



What is the distance between the first and last tree?

## Challenge 5

Filip has these five digit cards.



He uses all of the cards to make a three-digit number and a two-digit number.

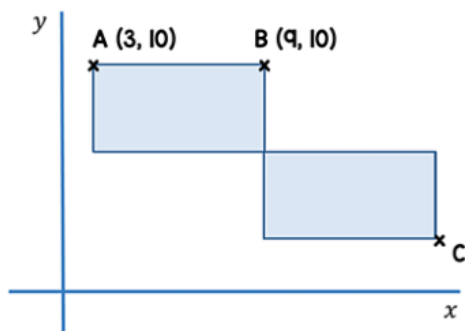
He multiplies the two numbers together and the answer is **15,741**.

$$\begin{array}{r} \phantom{\times} \phantom{00} \square \square \square \\ \times \phantom{00} \phantom{00} \square \square \\ \hline 15741 \end{array}$$

What are the two numbers Filip makes?

## Challenge 6

Here are two identical rectangles.



The length of each rectangle is double its width.

Work out the coordinates of point C.

## Challenge 7

A college has a vending machine that only sells crisps.

Crisps cost 55p per bag.

The table shows the amount of different coins taken in one day.



Coin	Number of Coins
£2	4
£1	19
50p	26
20p	11
10p	33
5p	25

How many bags of crisps were sold?

## Challenge 8

Here are three boxes.



Each box contains 60 counters.

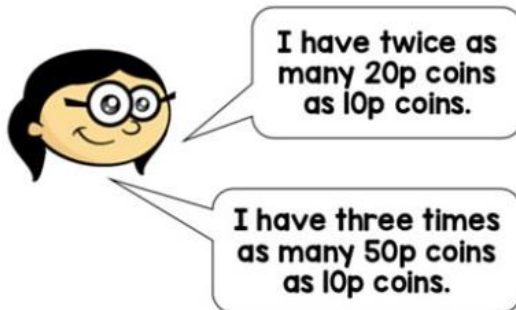
The same number of counters are moved from box 1 and box 2 into box 3.

70% of the counters are now in box 3.

How many counters were moved from box 2 to box 3?

## Challenge 9

Annie has some 10p, 20p and 50p coins in her money box.



In total she has **£54** in her money box.

How many **20p** coins does she have?

## Challenge 10

In this rectangle, the width is 4 cm less than the length.



Two of these rectangles are put together to make this shape.



The perimeter of this shape is **94 cm**.

What is the area of one of the rectangles?

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As a rough guide of difficulty level:

- **Challenge 1 and 2** are suitable for ages 5 to 7.
- **Challenge 3 to 6** are suitable for ages 7 to 11.
- **Challenge 7 to 10** are suitable for ages 11 to 15.

We want everyone to get involved with challenge day, so work together to solve as many as you can and share your solutions!

