

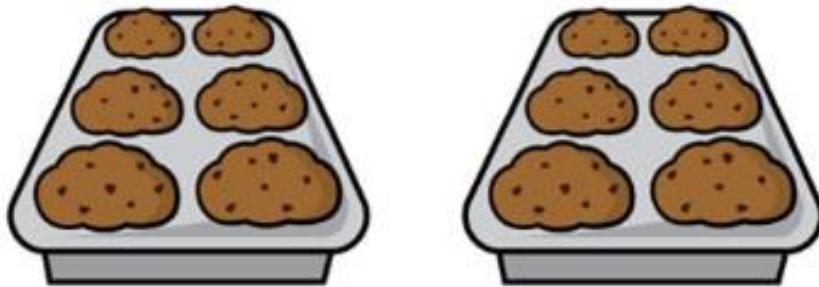
Friday 22nd May

Today's task will be problem solving. We'll start with 2 quick warm up questions, then move on to more challenging questions. Remember to use jottings, pictures and bar models to help.

Answers are included at the end. If you don't get a question correct, use the answer to help you work out why.

Challenge 1

Eric bakes these two trays of muffins.



He eats 2 muffins.

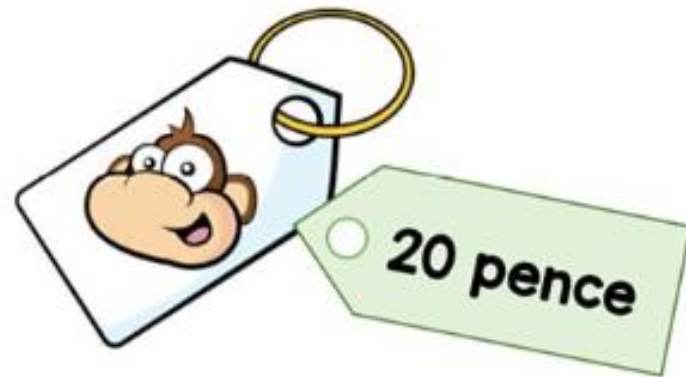
His dad eats 3 muffins.

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



This year my age is a multiple of 4



Next year my age will be a multiple of 5



I'm older than 18, but younger than 42

How old is the teacher?

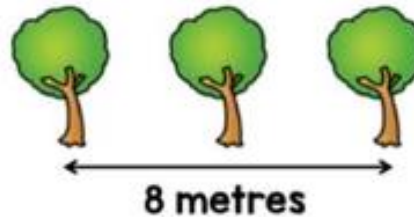
Challenge 4

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.

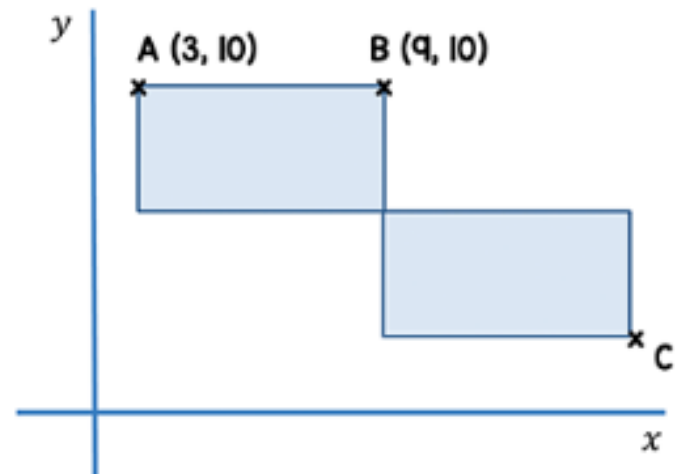
He multiplies the two numbers together and the answer is **15,741**.

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

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?

Answers

Challenge 1 - 3 muffins

Challenge 2 - 15 pence

Challenge 3 - 24-years-old

Challenge 4 - 36 metres

Challenge 5 - 583 and 27

Challenge 6 - (15, 4)

Challenge 7 - 85 bags of crisps