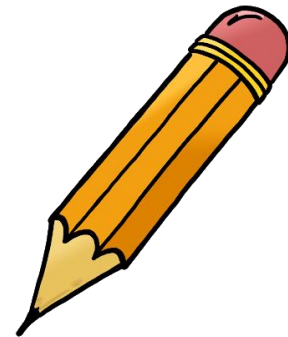


# Year 6

Friday 26<sup>th</sup> June 2020  
Maths

LO: **White Rose Challenge!**

[A PDF version of this lesson is available here](#)



# Family Challenge

Friday 19<sup>th</sup> June

## Challenge 1

Rani has 38p.

**I have 10p more  
than Rani.**



**I have 20p less  
than Eva.**

How much money does Eva have?

## Challenge 2

If

$$\triangle \times \triangle = 25$$

and

$$\bigcirc \times \bigcirc = 100$$

Work out the value of

$$\triangle \times \bigcirc$$

### Challenge 3

A sequence is made up of three 2-digit numbers.

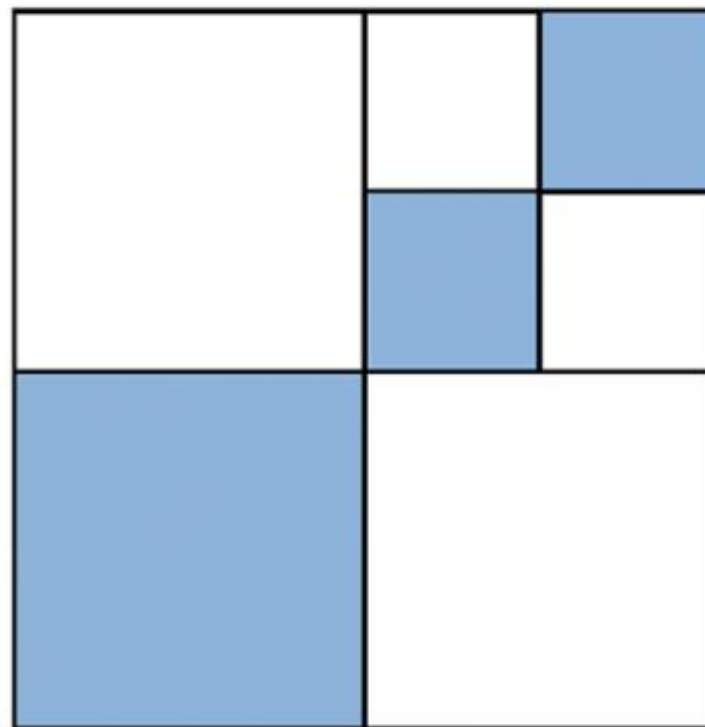
The sequence increases by eight each time. These are the digits that make up the three numbers.



Work out the numbers in the sequence.

### Challenge 4

A square is divided into smaller squares.



What fraction of the square is shaded?

## Challenge 5

The mass of an empty jar is 470 g.



6 marbles are placed in the jar.



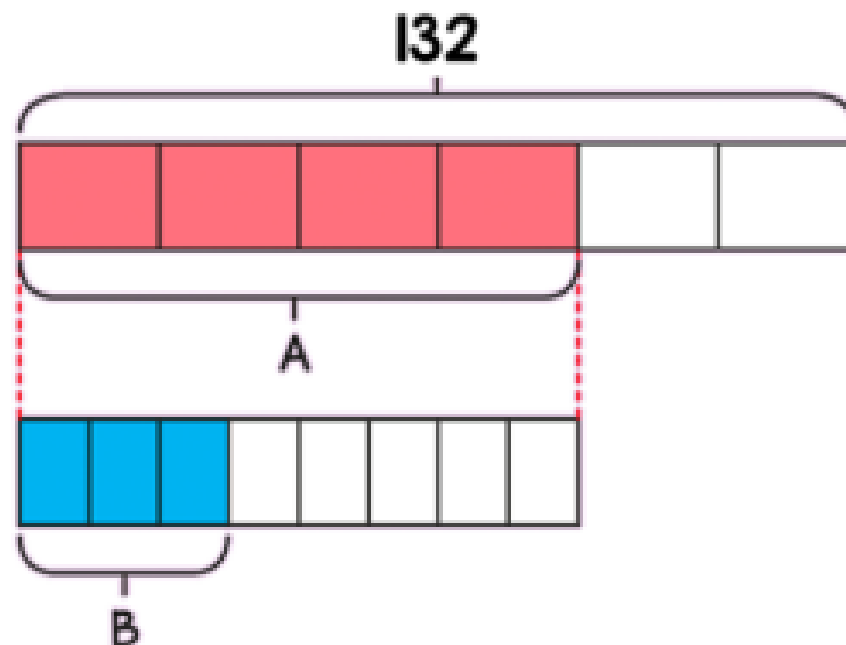
The total mass of the jar and marbles is now 1.1 kg.

Two of the marbles are removed.

What is the mass of the jar and marbles now?

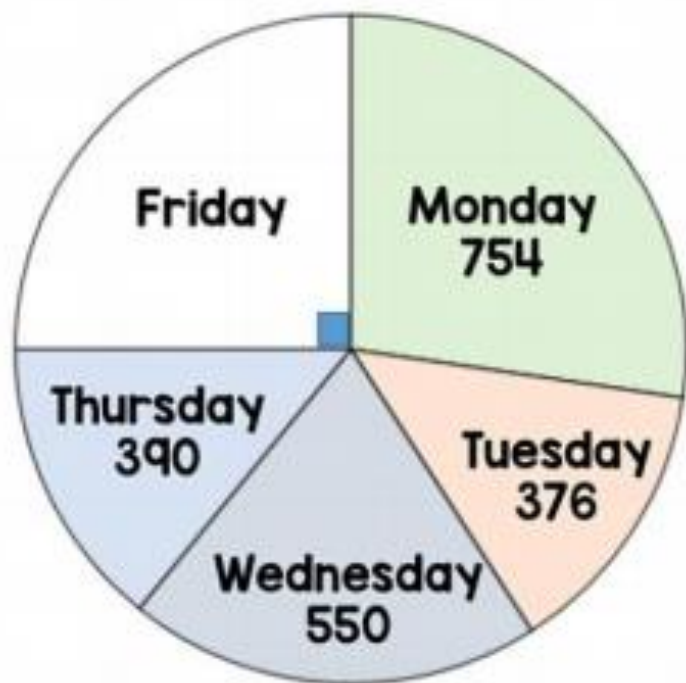
## Challenge 6

Work out the value of B.



## Challenge 7

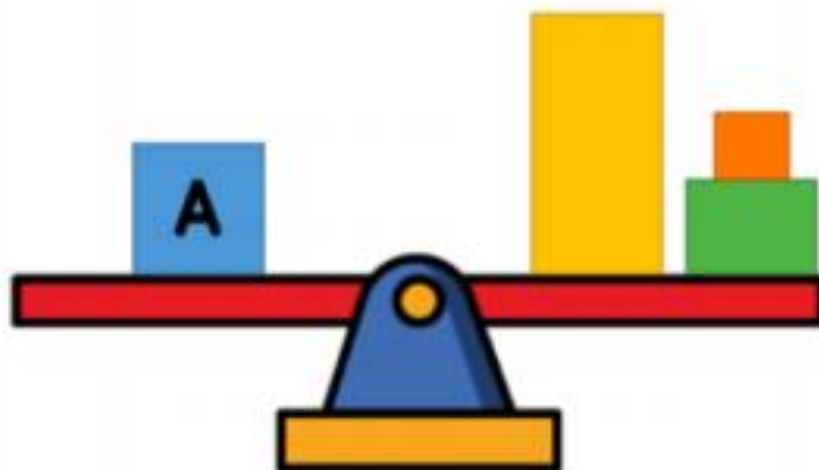
The pie chart shows the number of visitors to a museum each day.



How many people visited on Friday?

## Challenge 8

Four blocks are balanced on a scale.



The mass of A is 220 g.

What is the mean mass of all the blocks?

## Challenge 9

Here is rectangle A.

A yellow rectangle with the letter 'A' in the center.

Rectangle B is  $\frac{1}{3}$  longer than A

A green rectangle with the letter 'B' in the center.

Rectangle C is  $\frac{1}{3}$  longer than B

An orange rectangle with the letter 'C' in the center.

The total length of all three rectangles is 133 cm.

How much longer is rectangle C than B?

## Challenge 10

At 12pm there are 855 people in the zoo.

By 5pm  $\frac{4}{5}$  of the children have left and  $\frac{3}{4}$  of the adults have left.

There are now 36 more children than adults in the zoo.

How many adults were in the zoo at 12pm?