

Have you seen some maths in everyday life?

Have you seen a geometric natural phenomenon?

Have you seen some shapes on your daily walk?

Email **Miss Pickett** with your pictures!

Find the missing area

13cm ²	26cm ²
15cm ²	? cm ²

NOT TO SCALE

Kakuro problem

You can use the digits 1 to 9 to fill up the empty cells so that the sum of each horizontal block equals the number on its left, and the sum of each vertical block the number on the top.

18	11	18			
		2			
22	8				
					3
14	7				
					6



Mathematical Magic— How to guess someone's age and shoe size.

- 1) Write down your age
- 2) Multiply your age by 5
- 3) Multiply your answer by 10
- 4) Add today's date (not the month or year)
- 5) Double your answer
- 6) Add your shoe size

7) Subtract twice today's date

The first part of the answer is your age and the last two digits is your shoe size.



Which one is the odd one out?

$\frac{1}{20}$	$\frac{20}{25}$
$\frac{2}{3}$	$\frac{5}{4}$

1 : 7 2 : 14

3 : 11 7 : 49

Katherine Johnson 1918–2020

Katherine Johnson was born in West Virginia in 1918. After studying Maths and French, Johnson became a maths teacher at a black public school in West Virginia.

In 1939, Johnson was selected along with two men to be the first black students to be offered places at West Virginia University.

In 1953, Johnson began working at the National Advisory Committee for Aeronautics' (NACA) headed by Dorothy Vaughan. After just two weeks, Johnson was assigned to analysing data from flight tests and investigating plane crashes caused by wake turbulence.

The 1957 launch of USSR Sputnik was a turning point in American history and Johnson's life. In 1958 NACA became NASA.

In May 1961, Johnson analysed the trajectory of the NASA mission Freedom 7, America's first human spaceflight.

In 1962, as preparation for Glenn's orbital mission, Johnson helped make a worldwide communications network which linked tracking stations around the world to IBM computers. Scientists programmed these computers with a set of equations which would control the trajectory of the capsule.

At first, the astronauts were nervous about putting their lives in the hands of computers. Therefore Glenn wanted Johnson to check these calculations by hand! Glenn's flight was a success and was seen as a turning point in the space race (between the US and USSR)

She was awarded the Presidential medal of freedom by Obama

<https://www.youtube.com/watch?v=H332VyyS9r4>

Watch Hidden Figures

