

Thursday 9th July

Today we have a practical maths magic trick for you to amaze your family!
All you will need is a piece of paper, scissors and sticky tape!

$$A. \frac{2}{9} + \frac{1}{3} =$$

$$B. 3 \times 0 \times 9 =$$

$$C. 76.4 - 16.53 =$$

$$D. 76.39 - 13.2 =$$

$$E. 8,473 + 12,987 =$$

Q1 Each coach from Raven Coaches seats 45 people.
 Key Stage 2 at Bayview Primary is going on a trip.
 There are 240 children in Key Stage 2.
 For every 10 children, one adult must go on the trip.

How many coaches does Bayview Primary need to book?

coaches

3 marks

Q2 Place these numbers in order, starting with the smallest.

499,999 98,483 564,854 578,843 564,843

1 mark

Q3 Two decimal numbers add together to make 3.05.

One number is 1.003.

What is the other number?

1 mark

Is it a trick?????



This is a very strange thing and will amaze your family!
Can you draw on both sides of a piece of paper in one go?
Can you make a paper loop bigger by cutting it?

All you need is a long strip of paper, sticky tape, and a pair of scissors.

Take the long piece of paper and put the ends together as if you were making a headband. Before you attach the two ends with tape, give one of them a twist and then stick the ends together. (Watch the video below if you get stuck.)

Now try drawing a line along the centre of the strip. What do you notice?

You will end up back where you started, without having to take your pen off the paper!

So you have drawn on both sides of the strip of paper in one go, meaning that your original strip of paper, which had two sides, now only has one side!

Now cut along the line that you have drawn. What do you think might happen?

Try it and see!

There are many other interesting things that you can do with this strip. Try making another one, but this time instead of cutting along the middle, cut a third of the way from one edge. What do you think will happen this time?

Watch this video from for more trick ideas: <https://youtu.be/Qeeueeq0ZWM>

(The Möbius strip is named after the mathematician August Möbius who invented the strip in 1858.)

Answers

$$A. \frac{2}{9} + \frac{1}{3} = \frac{5}{9} \text{ (M)}$$

$$B. 3 \times 0 \times 9 = 0 \text{ (M)}$$

$$C. 76.4 - 16.53 = 59.87$$

(W)

$$D. 76.39 - 13.2 = 63.19$$

(M)

$$E. 8,473 + 12,987 = 21,460$$

(W)

Q1 Each coach from Raven Coaches seats 45 people.

Key Stage 2 at Bayview Primary is going on a trip.

There are 240 children in Key Stage 2. For every 10 children, one adult must go on the trip.

How many coaches does Bayview Primary need to book?

6 coaches

3 marks

Q2 Place these numbers in order, starting with the smallest.

499,999 98,483 564,854 578,843 564,843

98,483 499,999 564,843
564,854 578,843

1 mark

Q3 Two decimal numbers add together to make 3.05.

One number is 1.003.

What is the other number?

2.047

1 mark