

King Edward VI Camp Hill School for Girls

Maths Department Newsletter

1st November 2017

News

As you probably know, 11th November is Remembrance Day, when we traditionally

have a minute's silence to remember people who have died in wars. What you might not know is that this year, 11th November is also National Origami Day, so we have decided to make this an origamithemed newsletter.¹ Origami is actually a



branch of mathematics that can be used to solve many otherwise impossible geometric problems, such as how to trisect an angle². Here is a diagram showing how this can be done using origami. Let us know if you understand it. The angle being trisected is the angle CAB.



Forty is the only number whose letters are in alphabetical order

Maths Word

Origami is the Japanese art of folding paper into decorative or geometrical shapes. The word is a combination of the Japanese words 'ori' meaning 'fold' and 'kami' meaning 'paper'³.

Did You Know?

These popular bird shaped creatures are called 'origami cranes'. The largest



ever origami crane was made by 82 year old Naito Akira, from a square piece of plastic whose side length was only 0.1 mm. He had to use a microscope to see his work. There are lots of great videos on YouTube that show you how to make these.

Puzzle

In how many ways can you put four dots onto a flat piece of paper so that there are only two different distances which can be found between any two dots?

- 1. Maybe next year we'll make it war-themed. We wanted a picture of an origami poppy, but the rose was much better, from an origami point of view. The poppies were a bit rubbish.
- 2. To 'trisect' something means to cut it into three identical pieces.
- 3. So we don't know why it's called 'origami' and not 'orikami'. If you are Japanese and happen to know why, we would love to find out.

How to make an Origami Frog

