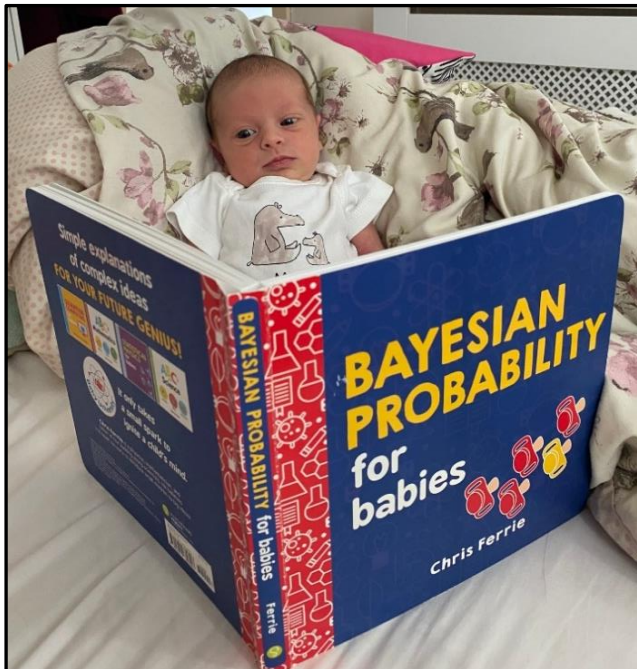




There are 90 degrees in a right angle

News

Welcome back to the new school year at Camp Hill, full of maths lessons, maths newsletters, and a few other things that aren't so important.¹ We thought we'd begin this newsletter by telling you that Mr and Mrs Hamblett have had a baby named Orla. Here is a picture of her reading a maths book.



Here at maths newsletter headquarters² we think you are never too young to start reading about maths. As the famous mathematician G H Hardy³ once said,

"No mathematician should ever allow himself to forget that mathematics, more than any other art or science, is a young man's game."

Obviously, if he were alive today he would know that this also applies to young female mathematicians too!

1. Other subjects and stuff etc.

2. Definitely a real place.

3. Remember his character from the film *The Man Who Knew Infinity*?

4. <https://www.dailymail.co.uk/news/article-2241854/What-odds-New-study-shows-guessing-heads-tails-isnt-really-50-50-game.html>

5. Can you work out who the mathematician is on the Russian coin?

Maths Word

Probability is a way of using a number to describe how likely an event is to occur. If something is **certain**, it is said to have a probability of 1. If it is **impossible**, it is said to have a probability of 0. Everything else has a probability somewhere between 0 and 1. Most people think that, when you toss a coin, the probability of it landing on heads, and the probability of it landing on tails, are both 0.5, meaning they are equally likely. It has, however, been shown that the probability of the coin landing the same way up as it was before it was tossed is 0.51.⁴ Slightly more than a half.⁵



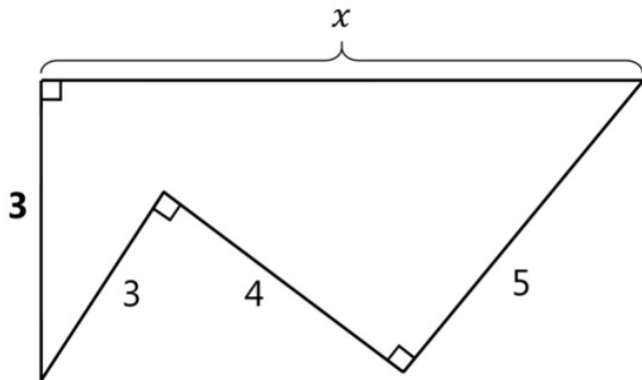
Joke



"The Hare and the Tortoise" is actually a fable about small sample sizes.

Pythagorean Puzzle

Year 8 have recently been learning about Pythagoras' theorem. With that rule in mind, can you work out the value of x ?



KS5 Maths Workshop

A long time ago, way back before most of you can probably remember⁶, we used to have this thing called maths workshop. The way it worked was if you were doing your maths homework, or just doing some extra study, or even if you'd just had a maths class, and there was a little bit of maths you couldn't do – maybe this was a concept you didn't understand, or a specific question you were struggling with – what you could do is go to this thing called Maths Workshop on a Thursday lunchtime in room 13. Lots of maths teachers would be there, and you could just turn up, ask your question, get an answer, then go again. It was really good. Anyway, we are pleased to say that **for years 12 and 13** this is now a thing again! If you need help with any maths, come along to room 13 this Thursday lunchtime and get help. You must be stuck on something. This is A-level maths. If there's nothing you're stuck on, you're almost certainly not doing it right.

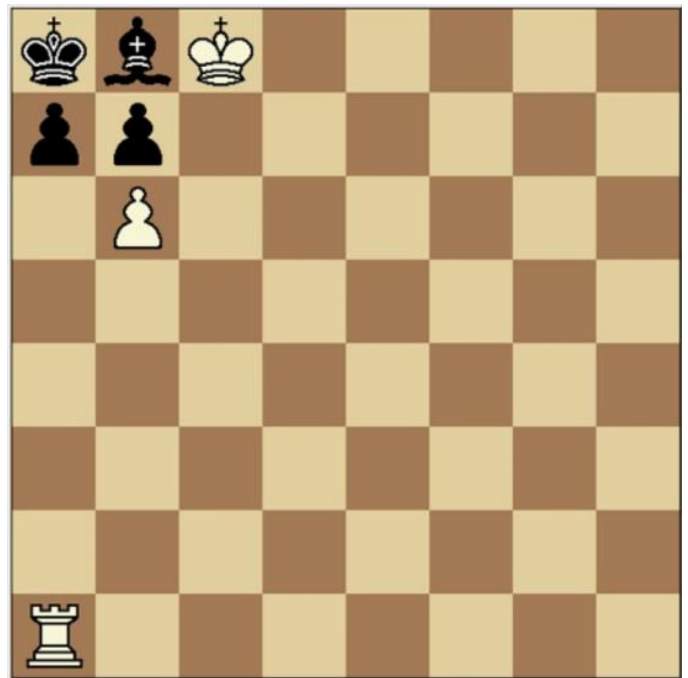
6. 2019

7. There is a new maths newsletter every few weeks.

8. <https://www.kechg.org.uk/main-school/curriculum/departments/mathematics>

Chess Club

Chess club will also be starting on Monday lunchtime. This will take place in room 14 at 1 pm. If you enjoy playing chess, please come along. We have quite a few chess sets and chess clocks, so you can play timed games if you like. Alternatively, you can play regular games, or show each other your favourite chess puzzles, gambits or traps. Meanwhile, here's a really nice puzzle for you. It's white's turn to play. How can they achieve a guaranteed checkmate in two moves? Let us know if you solve it!



Maths Newsletter

So here we are then. A new school year, with things a little bit more back to normal. If you're new to Camp Hill and you have enjoyed this maths newsletter, you may be pleased to know that there are another 90 of them⁷ on the school website in the maths section, filled with puzzles, facts, quotes, paradoxes, jokes and all sorts of fun stuff.⁸ Why not have a look at them?