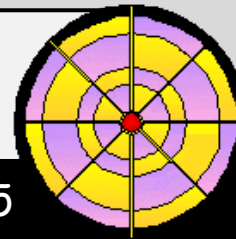


# The Daily Rigour

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Your free weekly numeracy newspaper!

## All the COVID virus in the world could fit in a can of coke, says mathematician

A single coke can would be big enough to contain all of the COVID-19 virus currently circulating in the world, according to a British mathematician. A single coke can holds 330 millilitres of cola.



(a) How many litres is this?

Experts also worked out there are around two quintillion COVID-19 virus particles in the world at any one time.

(b) Write the number of COVID-19 virus particles in the world at any one time as a number.

## Sophie Ellis-Bextor in Lockdown achievement!

English singer/songwriter Sophie Ellis-Bextor this week said the thing that she did one day in 'Lockdown' that made her feel proud was successfully memorising a 6-digit code for a few seconds to complete a two-step verification process!

On your mobile phone or tablet you will usually use a 4-digit PIN code to prevent someone else gaining access to your phone. All in all, there are around 10 000 combinations so the process is considered secure as phones typically lock after a few wrong guesses. In contrast, a six-digit PIN can be used for additional security, for example in bank accounts, as there are around one million combinations to choose from. When choosing a 6-digit PIN code, it is far more secure to choose random combinations of numbers than repetition, patterns or, worse still, your birthday!

Shown opposite are the top 10 most commonly used 6-digit PIN numbers in the world.

Write down what you think they are.

How many can you guess correctly???

- |                |                 |
|----------------|-----------------|
| 1. _ _ _ _ _ _ | 6. _ _ _ _ _ _  |
| 2. _ _ _ _ _ _ | 7. _ _ _ _ _ _  |
| 3. _ _ _ _ _ _ | 8. _ _ _ _ _ _  |
| 4. _ _ _ _ _ _ | 9. _ _ _ _ _ _  |
| 5. _ _ _ _ _ _ | 10. _ _ _ _ _ _ |



## Study finds 95% of people can't pronounce BMW correctly

Similar to the "NOU-tella" scandal of last week, 95% of people have been pronouncing the name of car manufacturer BMW wrong according to a recent survey.



Even though it's just three letters, most people immediately assume that it would have the English versions of those three letters, but, seeing as the cars are manufactured in Germany, it isn't.

It's actually pronounced 'bee em vee' rather than 'bee em double yoo'!

Write the proportion of people surveyed who mispronounce BMW as a fraction in its simplest form.

## Friday the 12<sup>th</sup> was a very mathematical date indeed!

Friday's date was both a palindrome and an Ambigram!

That means you can read the date from left to right, from right to left and also upside down!

12022021 UK

A Palindrome Day happens when the day's date can be read the same backward and forward.

In the format DD/MM/YYYY they are quite rare - Friday was the only one this year!

There are 22 palindromic dates STILL TO COME in this century. Can you list them all???