

Legs Eleven

Take a four-digit number: 3527.

Move the first digit to the “back of the queue” and move the rest along, giving 5273.

Now add your two numbers.



Thousands more problems can be found on the NRICH Maths website:

<http://nrich.maths.org>



Now try a few other four digit numbers. What do all your answers have in common?

Why?

Does it work for two-digit, three-digit, five-digit, 38-digit... numbers?

© University of Cambridge