Legs Eleven

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Specialists in rich mathematics

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.

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?

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

http://nrich.maths.org