**Riveting reversals**

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1.

Think of a three-digit number with

consecutive digits. Multiply this by 13

and write down your answer.

2.

Now reverse the digits in the

three-digit number, and multiply by

13

 again. Write down your answer.

3.

Find the difference between your

two answers. Write it down.

4.

Repeat with a new different

three-digit number with consecutive

digits, for example 234 or 456.

Write down the difference between

your two answers.

5.

Repeat with several other three-digit

numbers with consecutive digits.

What happens? Can you think why?

6.

Choose a three-digit number with consecutive digits, but this time multiply by a

two-digit number of your choice. Reverse the digits of the consecutive number

and repeat. What happens this time?

Make your own enquiry. What else could you try? How about four-digit

numbers with consecutive digits? Or keep the three-digit number the same and

reverse the digits of the two-digit number? Explore and see what else you can

find ou

t.

 1 2 3

x 1 3

 3 2 1

x 1 3