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Check your understanding: Questions

Describe in words what happens to a number when we multiply by 10.

Now explain WHY it happens – you may draw a picture if it helps.

Write the missing numbers:



Invent your own chain where you end up back at your starting number.

https://www.IITianAcademy.com Check your understanding: Answers

Describe in words what happens to a number when we multiply by 10. The digits each move one place to the left and a zero is put in the 1s place as a place holder for the other digits.

Now explain WHY it happens – you may draw a picture if it helps.

Each digit becomes ten times greater, so multiplying 73 by 10 the '7' increases in value from 70 to 700 and the '3' from 3 to 30. This can be seen by moving digits on a place grid:



Write the result number in each chain:

 $5 \times 100 \div 10 \times 10 \div 100 = 5$ $300 \div 10 \div 10 \times 10 \times 10 = 300$ $40 \times 10 \div 100 \times 10 = 40$

In each case, the initial number has been multiplied and divided by the same number.

Do children's own chains 'work', by ending back at their chosen starting number? Use a calculator to check if unsure...