

# Maths - Year 5

## Calculating 7: Multiplying and dividing by 10, 100 and 1000

### Key Vocabulary

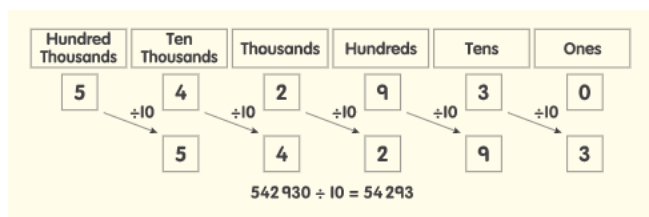
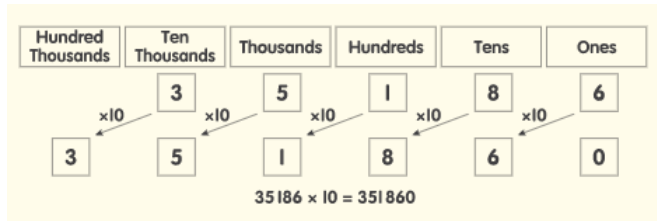
Scaling up and down	Describes the amount by which something is increased or reduced to make it larger or smaller in proportion.
tenths	Refers to the number of tenths (one whole one split into ten equal pieces) in a decimal number e.g. 2.431 has 4 tenths.
Hundredths	Refers to the number of hundredths (one whole one split into 100 equal parts) in a decimal number e.g. 2.431 has 3 hundredths.
Thousandths	Refers to the number of hundredths (one whole one split into 1000 equal parts) in a decimal number e.g. 2.431 has 1 thousandth.

### Mathematical Skills

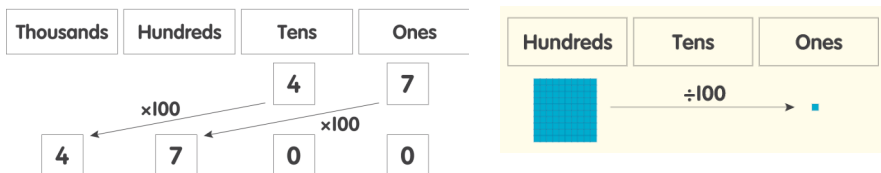
- Notice patterns when multiplying or dividing by 10, 100 or 1000.
- Explain what always happens when multiplying or dividing by 10, 100 or 1000.
- Use known multiplying facts to derive facts for multiplying with whole tens, hundreds or thousands, or decimal numbers.

### Mathematical Methods

- Consolidating understanding of multiplying and dividing by 10.



- Multiplying and dividing by 100 and 1000.



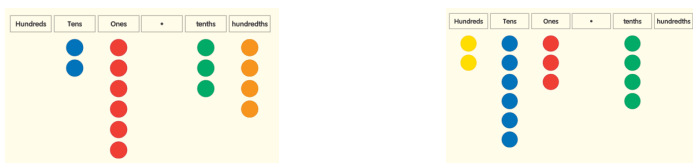
- Multiplying and dividing by 10 with numbers to one decimal place.



- Multiplying and dividing by 10 with numbers with more than one decimal place.



- Multiplying and dividing by 10, 100 and 1000 with decimals e.g.  $26.34 \times 10 = 263.4$



### Can you..?

- Work out  $£1.50 \div 10$ .
- A packet of biscuits costs 70p. How much would 10 packets cost?
- Tennis balls come in a box of 150 balls. A sport shop buys 100 boxes. How many balls will they have?
- Calculate  $5\text{kg} \div 1000$ .
- Calculate  $45.8 \times 100$ .
- What is happening in this sequence? 0.32, 3.2, 32, 320.