

## KIRF – I know how to multiply and divide by 10, 100 and 1,000

Because we have a base 10 number system, we can multiply and divide by 10, 100 and 1,000 using our knowledge of place value and without using formal written methods.

### Questions to ask at home

What is 48 multiplied by 1000?

What is 567 divided by 100?

What is ten times more than 56.9?

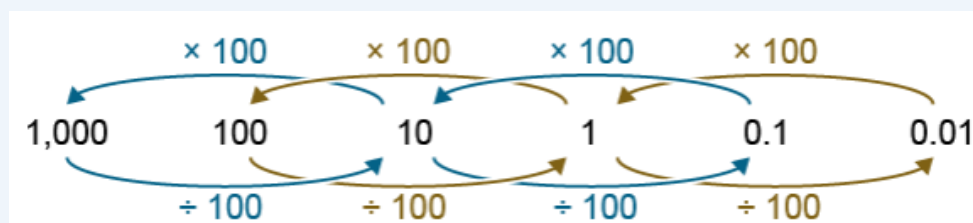
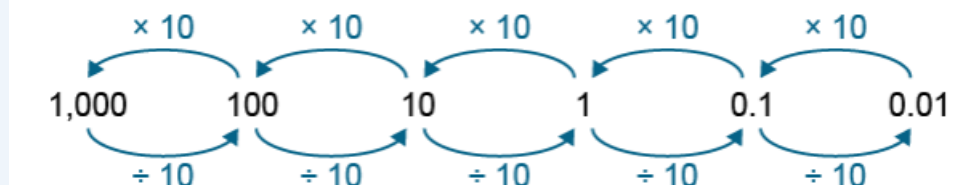
What is a thousand times less than 767?

### Key vocabulary

8cm is 10 times the length of 0.8cm.

0.25kg is one-hundredth times the mass of 25kg.

15,000 pencils is 1000 times as many as 15 pencils."



### Things to try:

Discuss conversions when using measuring skills, such as weighing out ingredients, measuring the length of something, looking at the amount of liquid in a water bottle or container, e.g. a coke can has 330ml of drink inside. How many litres is this?

[Times or Divide Bingo - 7-11 year olds - Topmarks](#)

[Multiply and Divide by 10, 100 & 1000 - Flip tiles \(wordwall.net\)](#)

1,000s	100s	10s	1s	0.1s	0.01s
			8		
			0	8	

Diagram showing multiplication by 10 (arrow from 1s to 10s) and division by 10 (arrow from 1s to 0.1s).

**Top Tips** The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey? You do not need to practise them all at once; perhaps you could have a fact of the day.