



# Key Instant Recall Facts

## Year 6—Summer 2

By the end of this half term, children should know the following facts. The aim is for them to recall these facts **with speed and accuracy**:

### I can multiply and divide by 10, 100 and 1000

Children should be able to divide and multiply larger numbers (to ten million) and decimals to 3 decimal places by 10, 100 and 1,000.

Divide 567 by 1,000 = 0.567

Move each digit three spaces to the right using place value knowledge (the number is becoming 1,000 times smaller)

Multiply 4.3 by 100 = 430

Move each digit two spaces to the left using place value knowledge (the number is becoming 100 times larger)

### Key vocabulary

divide

multiply

place value

decimal point

### What can this look like?

#### Concrete:

Use the place value grid to multiply 3.24 by 10, 100 and 1,000

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths
			● ● ●	● ●	● ●

When you multiply by \_\_\_\_, you move the counters \_\_\_\_ places to the left.

#### Pictorial:

TTh	Th	H	T	O
4	7	0	0	0

TTh	Th	H	T	O
	4	7	0	0

TTh	Th	H	T	O
		4	7	0

TTh	Th	H	T	O
			4	7

$47,000 \div 10 = 4,700$

$47,000 \div 100 = 470$

$47,000 \div 1,000 = 47$

#### Abstract:

$71.3 \div 100 = 0.713$

$0.92 \times 1000 = 920$

$1009 \div 10 = 100.9$

## Top tips

The secret to success is practising **little and often**. Use time wisely. Can you practise this KIRF whilst walking to school or during a car journey? You do not need to practise all aspects of the KIRF all at once; perhaps you could have a fact of the day, or a few facts per week to practise?

### Things to try

**Practise using a place value grid, physically writing or moving the numbers using counters on the grid.**

**This will help children to eventually be able to visualise the place value grid to calculate multiplications or divisions mentally.**

### Key questions

- Divide 5.6 by 10
- Multiply 1,230 by 100
- 5.62 divided by 10 equals 56.2; true or false?  
How do you know?

### Websites

<https://www.topmarks.co.uk/Flash.aspx?f=bingotimesordivide>

<https://www.topmarks.co.uk/Flash.aspx?f=MovingDigitCards>

<https://www.iknowit.com/lessons/e-multiplying-and-dividing-whole-numbers-by-10-100-1000.html>