Key Instant Recall Facts

Year 5 – Spring

I know the answer to a question where you multiply or divide a whole number by 10, 100 or 1,000.

By the end of this half term, children should be able to work out the following facts and other similar facts.

5 × 10 = 50	**7 × 100 = 700**	**4 x 1000 = 4000**
80 ÷ 10 = 8	**900 ÷ 100 = 9**	**2000 ÷ 1000 = 2**
23 × 10 = 230	**84 × 100 = 8400**	**72 x 1000 = 72,000**
97 ÷ 10 = 9.7	**72 ÷ 100 = 0.72**	**8540 ÷ 1000 = 8.54**
217 × 10 = 2170	**589 × 100 = 58,900**	**423 x 1000 = 423,000**
456 ÷ 10 = 45.6	**312 ÷ 100 = 3.12**	**601 ÷ 1000 = 0.601**

Key Vocabulary

What is 5 multiplied by 10?

What is 100 times 67?

What is 723 divided by 1000?

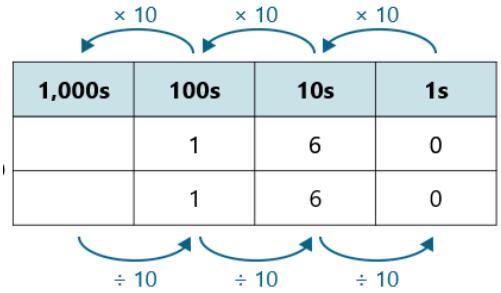
hundreds, tens, ones, tenths, hundredths, thousandths

These are just examples of the facts for this term. Children should be able to answer these questions in any order, including missing number questions e.g. 100 x ◯ = 56,000 or ◯ ÷ 10 = 760.

Top tips to help with learning:

The secret to success is practising **little** and **often**. Use time wisely.

It is important to refer to the digits, rather than the decimal point, moving when multiplying or dividing by 10, 100 or 1000.



Web links:

Times or Divide Bingo - 7-11 year olds - Topmarks

Moving Digit Cards - 7-14 year olds - Topmarks – nice animation of how digits work

Key Instant Recall Facts

Year 5 – Spring

I know decimal equivalents for thousandths.

I know decimal pairs to total 1 (two-decimal places)

I know the fraction, decimal and percentage equivalents.

Facts to learn:

Decimal equivalents to thousandths.

0.001= $\frac{1}{1000}$	0.002 = $\frac{2}{1000}$
0.003 = $\frac{3}{1000}$	0.004= $\frac{4}{1000}$
0.005 = $\frac{5}{1000}$	0.006= $\frac{6}{1000}$
0.231= $\frac{231}{1000}$	0.652= $\frac{652}{1000}$
0.018= $\frac{18}{1000}$	1= $\frac{1000}{1000}$

Decimal pairs to total 1. For example:

0.11 + 0.89	0.12 + 0.88
0.13 + 0.87	0.14 + 0.86
0.15 + 0.85	0.16 + 0.84
0.17 + 0.83	0.18 + 0.82
0.19 + 0.81	0.20 + 0.80
0.21 + 0.79	0.22 + 0.78
Continue in this pattern until	
0.98 + 0.02	0.99 + 0.01

It is also useful to know the facts as subtractions.

Using the fact families: 0.11 + 0.89, 0.89 +0.11.

$\frac{1}{4}$	0.25	25%		$\frac{1}{3}$	0.333	33.3%		$\frac{2}{10}$	0.2	20% and other tenths to ten tenths.
$\frac{1}{2}$	0.5	50%		$\frac{2}{3}$	0.666	66.6%		$\frac{1}{25}$	0.04	4%
$\frac{3}{4}$	0.75	75%		$\frac{1}{10}$	0.1	10%		$\frac{2}{25}$	0.08	8% and other fractions with 25 as a denominator.

Top tips to help with learning:

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 don't need to practise them all at once: perhaps you could have a fact of the day.

Web links:

Match Fractions Decimals and Percentages - Mathsframe
Decention Jr | Fractions, Decimals and Percent | Math Playground
Matching Fractions, Decimals and Percentages (maths.org)