



Key Instant Recall Facts

Year 4 – Spring 1

Key Vocabulary

How many **tenths** is 0.2?

How many **hundredths** is 0.18?

I aspire to multiply and divide single digits by 10 and 100.

By the end of this half term, children should know the following facts. The aim is for them to recall these facts **instantly**.

For example:

$2 \times 10 = 20$	$5 \times 10 = 50$	$7 \times 10 = 70$	$9 \times 10 = 90$
$2 \times 100 = 200$	$5 \times 100 = 500$	$7 \times 100 = 700$	$9 \times 100 = 900$
$2 \div 10 = 0.2$	$5 \div 10 = 0.5$	$7 \div 10 = 0.7$	$9 \div 10 = 0.9$
$2 \div 100 = 0.02$	$5 \div 100 = 0.05$	$7 \div 100 = 0.07$	$9 \div 100 = 0.09$

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

These are just examples of facts for this half term. Children should be able to answer the questions in any order, including missing number questions e.g. $10 \times \bigcirc = 5$ or $\bigcirc \div 10 = 60$.

It is tempting to tell children that to multiply by 10 or 100 it is just a case of adding zeroes to the end number. This way of thinking can cause problems when they are trying to multiply and divide decimals as the rule does not work for these numbers. The best way to understand the process for multiplying by 10 is to show each digit moving up one space in the place value table. This rule works for decimals too.

Multiplying and Dividing by 10, 100 and 1000

10 000	1000	100	10	1	●	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
					●			

Multiplying

X 10 digits move LEFT 1 space
 X 100 digits move LEFT 2 spaces
 X 1000 digits move LEFT 3 spaces



Dividing

÷ 10 digits move RIGHT 1 space
 ÷ 100 digits move RIGHT 2 spaces
 ÷ 1000 digits move RIGHT 3 spaces



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You could try some of these ideas...

- Make a poster displaying the number sentences.
- Make some flash cards and test family members.
- Challenge an older sibling or family member.
- Use playing cards or dice to create questions
- Make links to money where possible (10 lollypops cost 70p, how much does 1 cost?).