

Key Instant Recall Facts

Year 4 – Summer 2

I can multiply and divide single-digit numbers 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**.

Fact families

Some examples:

$7 \times 10 = 70$

$30 \times 10 = 300$

$0.8 \times 10 = 8$

$10 \times 7 = 70$

$10 \times 30 = 300$

$10 \times 0.8 = 8$

$70 \div 7 = 10$

$300 \div 30 = 10$

$8 \div 0.8 = 10$

$70 \div 10 = 7$

$300 \div 10 = 30$

$8 \div 10 = 0.8$

$6 \times 100 = 600$

$40 \times 100 = 4000$

$0.2 \times 10 = 2$

$100 \times 6 = 600$

$100 \times 40 = 4000$

$10 \times 0.2 = 2$

$600 \div 6 = 100$

$4000 \div 40 = 100$

$2 \div 0.2 = 10$

$600 \div 100 = 6$

$4000 \div 100 = 40$

$2 \div 10 = 0.2$

They should be able to answer these questions in any order, including missing number questions e.g.

$10 \times \bigcirc = 5 \text{ or } \bigcirc \div 10 = 60.$

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 of the day. If you would like more ideas, please speak to your child's teacher.

Activity ideas

- * **Look for patterns**– These times tables are full of patterns for your child to find. **How many can they spot?**
- * **Play games**- Mathletics has a range of interactive conversation games to play, <http://www.mathletics.co.uk/>
- * **Quick-fire questions**- Chose a whole number and see how quick you can write the fact family. To make it harder try missing out a part.

For example:

"What are the missing parts?"

$6 \times \underline{\quad} = 600$

$\underline{\quad} \times 6 = 600$

$600 \div \underline{\quad} = 100$

$\underline{\quad} \div 100 = 6$

Warning!-When creating fact families, children sometimes get confused by the order of the numbers in the division number sentence. It is tempting to say that the biggest number goes first, but it is more helpful to say that the answer to the multiplication goes first, as this will help your child more in later years when they study fractions, decimals and algebra.

E.g. $6 \times 100 = 600$. The answer to the multiplication is 600, so $600 \div 100 = 6$ and $600 \div 6 = 100$

Key Vocabulary:

What is 5 multiplied by 10?

What is 10 times 0.9?

What is 700 divided by 70?

hundreds, tens, ones

tenths, hundredths

fact family

inverse equation

whole, parts