

Key Instant Recall Facts - Year 5 Summer Term 1

I know decimal number bonds to 1 and 10.

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

Fact Families

Some examples:

$$0.6 + 0.4 = 1 \qquad 3.7 + 6.3 = 10$$

$$0.4 + 0.6 = 1 \qquad 6.3 + 3.7 = 10$$

$$1 - 0.4 = 0.6 \qquad 10 - 6.3 = 3.7$$

$$1 - 0.6 = 0.4 \qquad 10 - 3.7 = 6.3$$

$$0.75 + 0.25 = 1 \qquad 4.8 + 5.2 = 10$$

$$0.25 + 0.75 = 1 \qquad 5.2 + 4.8 = 10$$

$$1 - 0.25 = 0.75 \qquad 10 - 5.2 = 4.8$$

$$1 - 0.75 = 0.25 \qquad 10 - 4.8 = 5.2$$

This list includes some examples of facts that children should know

They should be able to answer these questions in any order, including missing number questions
e.g. $0.49 + ? = 10$ or $7.2 + ? = 10$

Key imagery:

Prove using whole/part model:

$$\text{Eg} - 0.3 + 0.7 = 1$$

Whole

1	
0.3	0.7
Part	Part

$$\text{Eg} - 7.4 + 2.6 = 10$$

Key Vocabulary:

What do I **add** to 0.8 to make 1?

What is 1 **take away** 0.06?

What is 1.3 **less than** 10?

How many more than 9.8 is 10?

What is the **difference** between 0.92 and 10?

What is the **whole**?

What are the **parts**?

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

Buy one get three free If your child knows one fact (e.g. $0.12 + 0.88 = 1$), **can they tell you the other three facts in the same fact family?** ($0.88 + 0.12 = 1$, $1 - 0.88 = 0.12$ and $1 - 0.12 = 0.88$)

Use number bonds to 10-How can number bonds to 10 help you work out number bonds to 100?

Play games

- <https://www.topmarks.co.uk/maths-games/hit-the-button> This website includes a variety of number bonds to 100 games



Key Instant Recall Facts - Year 5 Autumn Term 2

I know the multiplication and division facts for all times tables up to 12×12 .

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

Please see a separate sheet for all times tables facts.

Key Vocabulary

What is 12 **multiplied by** 6?

What is 7 **times** 8?

What is 84 **divided by** 7?

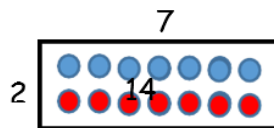
What is the **whole**?

What are the **parts**?

Key Imagery:

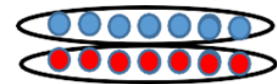
Prove using array:

Eg- $7 \times 2 = 14$



(the parts are 7 and 2 and the whole is 14)

Prove using array using grouping $14 \div 2 = 7$



Pupils should be able to answer these questions in any order, including missing number questions e.g. $7 \times \bigcirc = 49$ or $\bigcirc \div 6 = 3$.

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

Songs and Chants You can find times table songs on Youtube.

Use memory tricks - For those hard-to-remember facts, www.multiplication.com (Multiplication tab) has some strange pictyres stories to help children remember.

Speed Challenge Take two packs of playing cards and remove the kings. Turn over two cards and ask your child to multiply the numbers together (Ace = 1, Jack = 11, Queen = 12). **How many questions can they answer correctly in 2 minutes?** Practise regularly and see if they can beat their high score.

Online games There are many games online which can help children practise their multiplication and division facts.

<http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> (Multiplication tab) is a good place to start along with Tablemaster

<http://www.transum.org/Software/Tablesmaster/>

Make a poster Record the fact families for each multiplication times table, for example

$7 \times 10 = 70$ $10 \times 7 = 70$ $70 \div 7 = 10$ $70 \div 10 = 7$	To make it harder try removing some of the parts 	$7 \times \underline{\quad} = 70$ $\underline{\quad} \times 7 = 70$ $\underline{\quad} \div 7 = 10$ $70 \div \underline{\quad} = 7$
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Key Instant Recall Facts - Year 5 Spring Term 1

I can recall metric conversions

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

Key Vocabulary:

Kilogram

Grams

Kilometre

Meters

Centimetres

Millimetres

Litre

Millilitres

