

Year 4

Key Instant Recall Facts

To develop your child's fluency and mental maths skills, we are introducing KIRFs (Key Instant Recall Facts) throughout school. KIRFs are a way of helping your child to learn by heart, key facts and information which they need to have instant recall of. KIRFs are designed to support the development of mental maths skills that underpin much of the maths work in our school. They are particularly useful when calculating, adding, subtracting, multiplying or dividing. They contain number facts such as number bonds and times tables that need constant practise and rehearsal, so children can recall them quickly and accurately.

For your child to become more efficient in recalling them easily, they need to be practised frequently and for short periods of time. Each half term, children will focus on a Key Instant Recall Fact (KIRF) to practise both in school and learn at home for the half term. They will also be available on our school website under the maths section. They are not designed to be a time-consuming task and can be practised anywhere – in the car, walking to school, etc. Regular practice - little and often – helps children to retain these facts and keep their skills sharp. Over their time at primary school, we believe that - if the KIRFs are developed fully - children will be more confident with number work, understand its relevance, and be able to access the curriculum much more easily.

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Key Instant Recall Facts Year 4 Autumn 1

Recall 6x table multiplication and division facts

By the end of this term we aim that children should know these facts instantly

Examples include:

$$6 \times 7 = 42, 7 \times 6 = 42, 42 \div 7 = 6, 42 \div 6 = 7$$

They should be able to answer these questions in any order, including missing number questions up to 12×6

$$\text{e.g. } 6 \times \underline{\quad} = 72 \text{ or } \underline{\quad} \div 6 = 11$$

Key vocabulary

What is 6 multiplied by 8?
What is 6 times 9?
What is 72 divided by ?

Top Tip:

Please practise these little and often, at times like when you are on your way to school or doing tasks in the house. Make them a part of your everyday routine.

How to practise this skill examples:

- Chants- Practice chanting the times table.
- Quick recall games e.g. who can get the most in 2 minutes?
- Youtube – There are lots of Times table songs on Youtube to aid learning, why not try one out.
- TTRS- ask your teacher to set them to 6s if you are not sure

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Key Instant Recall Facts Year 4 Autumn 2

Recall 7x table multiplication and division facts

By the end of this term we aim that children should know these facts instantly

Examples include:

$$9 \times 7 = 63, 7 \times 9 = 63, 63 \div 7 = 9 \quad 63 \div 9 = 7$$

They should be able to answer these questions in any order, including missing number questions up to 12 x 7

$$\text{e.g. } 7 \times \underline{\quad} = 77 \text{ or } \underline{\quad} \div 7 = 12$$

Key vocabulary

What is 6 multiplied by 7?

What is 7 times 9?

What is 77 divided by 7?

Top Tip:

Please practise these little and often, at times like when you are on your way to school or doing tasks in the house. Make them a part of your everyday routine.

How to practise this skill examples:

- Chants- Practice chanting the times table.
- Quick recall games e.g. who can get the most in 2 minutes?
- Youtube – There are lots of Times table songs on Youtube to aid learning, why not try one out.
- TTRS- ask your teacher to set them to 7s if you are not sure how to.

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Key Instant Recall Facts

Year 4 Spring 1

I know the multiplication and division facts for the 9 times table

By the end of this term we aim that children should know these facts instantly

Examples include:

$$9 \times 1 = 9, 1 \times 9 = 9, 9 \div 1 = 9, 9 \div 9 = 1$$

$$9 \times 12 = 108, 12 \times 9 = 108, 108 \div 9 = 12,$$

$$108 \div 12 = 9$$

They should be able to answer these questions in any order, including missing number questions up to 12×9

$$\text{e.g. } 9 \times \underline{\quad} = 99 \text{ or } \underline{\quad} \div 9 = 11$$

Key vocabulary

9 multiplied by 6 is equal to 54

2 times 9 and 9 times 2 are equivalent

99 shared by 9 is equal to 11

90 divided by 9 equals 10

Top Tip:

Please practise these little and often, at times like when you are on your way to school or doing tasks in the house. Make them a part of your everyday routine.

How to practise this skill examples:

- Quick recall games e.g. who can get the most in 2 minutes?
- Songs and Chants – You can find multiplication songs and chants online.
- Use your TTRS- ask your teacher to set it to 9s if you don't know how.
- Buy one get three free – If your child knows one fact (e.g. $12 \times 9 = 108$), can they tell you the other three facts in the same fact family?

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Key Instant Recall Facts Year 4 Spring 2

I know the multiplication and division facts for the 11 and 12 times table

By the end of this term we aim that children should know these facts instantly

Examples include:

- $11 \times 11 = 121$, $121 \div 11 = 11$,
- $11 \times 12 = 132$, $12 \times 11 = 132$,
 $132 \div 12 = 11$, $132 \div 11 = 12$
- They should be able to answer these questions in any order, including missing number questions up to 12×12
- e.g. $9 \times \underline{\quad} = 99$ or $\underline{\quad} \div 9 = 11$

Key vocabulary

11 multiplied by 12 is equal to 144

11 times 12 and 12 times 11 are equivalent

132 shared by 12 is equal to 11

121 divided by 11 equals 11

Top Tip:

Please practise these little and often, at times like when you are on your way to school or doing tasks in the house. Make them a part of your everyday routine.

How to practise this skill examples:

- Quick recall games e.g. who can get the most in 2 minutes?
- Songs and Chants – You can find multiplication songs and chants online.
- Use your TTRS- ask your teacher to set it to 11s/12s if you don't know how.
- Buy one get three free – If your child knows one fact (e.g. $12 \times 9 = 108$), can they tell you the other three facts in the same fact family?

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Key Instant Recall Facts Year 4 Summer 1

I know the multiplication and division facts for all times table

use this term to practise all of the times tables and their related
division facts

Examples include:

$$11 \times 6 = 66, 6 \times 11 = 66, 66 \div 11 = 6,$$

$$66 \div 6 = 11$$

$$7 \times 8 = 56, 8 \times 7 = 56, 56 \div 7 = 8, 56 \div 8 = 7$$

They should be able to answer
these questions in any order,
including missing number
questions up to 12×12

e.g. $4 \times \underline{\quad} = 24$ or $\underline{\quad} \div 4 = 11$

Key vocabulary

What is 8 multiplied
by 7?

What is 12 times 9?

What is 66 divided by
11?

Top Tip:

Please practise these little and often, at times like when you are on your way to school or doing tasks in the house. Make them a part of your everyday routine.

How to practise this skill examples:

- They should be able to answer these questions in any order, including missing number questions e.g. $8 \times \underline{\quad} = 88$ or $\underline{\quad} \div 8 = 7$
- Songs and chants are a great way to help children to remember their multiplication tables
- There are lots of online games
- Use your TTRS- ask your teacher to set it to any multiplications tables you don't know

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Key Instant Recall Facts Year 4 Summer 2

I know the decimal equivalents of halves, quarters, tenths and hundredths

By the end of this term we aim that children should know these facts instantly

$$\frac{1}{2} = 0.5$$

$$\frac{1}{4} = 0.25$$

$$\frac{3}{4} = 0.75$$

$$\frac{1}{10} = 0.1$$

$$\frac{2}{10} = 0.2$$

$$\frac{5}{10} = 0.5$$

$$\frac{6}{10} = 0.6$$

$$\frac{9}{10} = 0.9$$

$$\frac{1}{100} = 0.01$$

$$\frac{7}{100} = 0.07$$

$$\frac{21}{100} = 0.21$$

$$\frac{75}{100} = 0.75$$

$$\frac{99}{100} = 0.99$$

Key vocabulary

How many tenths is 0.8?

How many hundredths is
0.12?

Write 0.75 as a fraction.

Write $\frac{1}{4}$ as a decimal.

Top Tip:

Please practise these little and often, at times like when you are on your way to school or doing tasks in the house. Make them a part of your everyday routine.

How to practise this skill examples:

- Children should be able to convert between decimals and fractions for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ and any number of tenths and hundredths.
- Play games – Make some cards with pairs of equivalent fractions and decimals. Use these to play the memory game or snap. Or make your own dominoes with fractions on one side and decimals on the other.

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