



# Year 4 Maths

## KEY INSTANT RECALL FACTS (KIRFs)

To develop your child's fluency and mental maths skills, we have introduced 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 schools. 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.

Each half term, children will focus on 1 KIRF to practise and learn at home alongside the work that we will be doing weekly in school. They will include ideas to assist your child in grasping these key facts. They are not designed to be a time-consuming task and can be practised anywhere – in the car, walking to school etc. Regular practise – little and often – helps children to retain these facts.

Over their time at primary school, we believe that – if the KIRFs are developed fully – children will be more confident with maths work, understand its relevance and be able to access the curriculum more easily. They will be able to apply what they have learned to a wide range of problems that confront us regularly.

Thank you for your support.

# Key Instant Recall Facts

## Year 4 Spring 2

This half term your child is working towards achieving knowledge of the KIRFS, indicated below.

The ultimate aim is for your child to be able to recall these facts instantly.

### This terms KIRF

I know the multiplication and division facts for the 9x, 11x and 12x table.

### For example:

$$3 \times 9 = 27$$

$$27 \div 3 = 9$$

$$27 \div 9 = 3$$

### Key Vocabulary

What is 3 multiplied by 11?

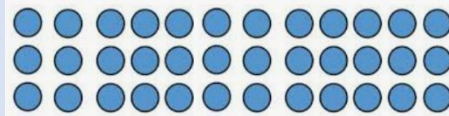
What is 3, 11 times

How many groups of 11 are there in 33?

What is 33 shared between 11 people?

### Activities to try:

Make arrays with objects eg: Socks, dried pasta, counters to demonstrate multiplication and division



$$3 \times 12 = 36 \quad 12 \times 3 = 36$$

$$36 \div 3 = 12 \quad 36 \div 12 = 3$$

Can your child tell you 4 different calculations for the array?

Make some flashcards with the 9, 11 and 12x table ( 5 x 12) on one side of the card and the answer (60) on the other side. You could also make some with division facts on them. Children read the number sentence, say the answer and then turn over the card to check if they are right. Challenge your child- how many can you get correct in 2 mins etc. Can you turn the cards into a game of snap, matching the division to the multiplication?

### Useful Websites

<http://www.timestables.me.uk/>

<https://www.topmarks.co.uk/maths-games/hit-the-button>

<https://www.bbc.co.uk/teach/supermovers/times-table-collection/z4vv6v4>

<https://www.timestables.co.uk/>