



# Year 5 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 2 KIRFs 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.

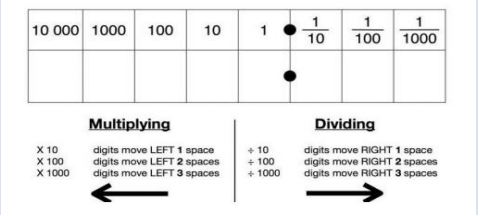
Thank you for your support.

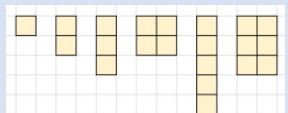
# Key Instant Recall Facts

## Year 5 Spring 1

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.

<p>This term's KIRF 1.....</p> <p>I can multiply and divide numbers by 10, 100 and 1,000.</p>	<p>For example:</p>  <p>When we multiply by 10, 100 and 1000 we shift the digits to the left. One place left for 10, two places left for 100 and three places left for 1000. When we divide by 10, 100 and 1000, we do the opposite and shift the digits to the right instead.</p>
<p><b>Key Vocabulary:</b></p> <ul style="list-style-type: none"> <li>Multiply</li> <li>Divide</li> <li>Whole number</li> <li>Decimal number</li> <li>Place value</li> </ul>	<p><b>Play a game:</b></p> <p>Make some number flashcards and ask a family member to test you- how quickly can you multiply/divide by 10, 100 or 1000.</p> <p><b>OR</b></p> <p>Create a poster for multiplying/dividing by 10, 100 and 1000.</p>
<p><b>Online games to practise:</b></p> <p><a href="#">Year 5 Divide by 10, 100 and 1,000 Game   Classroom Secrets Kids</a></p> <p><a href="#">Times or Divide Bingo - 7-11 year olds - Topmarks</a></p>	

<p>This term's KIRF 2.....</p> <p>I can recall square numbers up to 12<sup>2</sup>.</p>	<p>A square number is the product of a number being multiplied by itself:</p> $1^2 = 1 \times 1 = 1$ $2^2 = 2 \times 2 = 4$ $3^2 = 3 \times 3 = 9$ $4^2 = 4 \times 4 = 16$ $5^2 = 5 \times 5 = 25$ <p>What are the others?</p>
<p><b>Key Vocabulary:</b></p> <ul style="list-style-type: none"> <li>Multiply</li> <li>Squared</li> <li>Square root.</li> </ul>	<p><b>Play a game:</b></p> <p>Draw a 1 x 1 square on squared paper. Then, add one extra square and see if you can create a square, rectangle or stick. Keep adding on extra 1 x 1 squares.</p> 
<p><b>Online games:</b></p> <p><a href="#">Year 5 Square Numbers Game   Classroom Secrets Kids</a></p> <p><a href="#">Game for Learning Square Numbers. (mathematics-monster.com)</a></p>	

