

# Key Instant Recall Facts in Maths (KIRFs)

## Year 6



<b>Counting and Place Value</b> <ul style="list-style-type: none"><li>Count forwards and backwards from any given number, in any steps, crossing boundaries and into negative numbers</li><li>Know the decimal and percentage equivalents of the fractions <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{3}{4}</math>, <math>\frac{1}{3}</math>, <math>\frac{2}{3}</math>, tenths and fifths</li><li>Calculate mentally using brackets</li><li>Understand the value of M, HTh, TTh, Th, H, T &amp; Ones</li></ul>	<b>Multiplication and Division Facts</b> <ul style="list-style-type: none"><li>Continue to rehearse all multiplication tables up to <math>12 \times 12</math> and division facts</li><li>Know all square numbers to <math>12 \times 12</math></li><li>Know all square roots to <math>10 \times 10</math></li><li>Know the square roots to <math>15 \times 15</math></li><li>Know all prime numbers within 50</li><li>Know the prime numbers within 100</li></ul>
<b>Number Bonds</b> <ul style="list-style-type: none"><li>Know the addition and subtraction facts for two place decimal complements of 1</li><li>Know the addition and subtraction facts for three place decimal complements of 1</li></ul>	<b>Doubling and Halving</b> <ul style="list-style-type: none"><li>Know doubles and halves of one place decimals</li><li>Know doubles and halves of two place decimals</li><li>Know the doubles and halves of all multiples of 10 to 10,000</li><li>Know the doubles and halves of all multiples of 1000 to 100,000</li></ul>
<b>Addition and Subtraction</b> <ul style="list-style-type: none"><li>Perform mental calculations, including with mixed operations and large numbers</li></ul>	<b>Measures</b> <ul style="list-style-type: none"><li>Know: angles on a straight line</li><li>Illustrate and name parts of a circle, including radius, diameter and circumference and know that the diameter is twice the radius</li></ul>