

Key Instant Recall Facts in Maths (KIRFs)

Year 5



Counting and Place Value

- Count forwards and backwards from any given number, in any steps, crossing boundaries and into negative numbers
- Count forwards and backwards in steps of powers of 10 for any given number up to 1 000 000
- Count forwards and backwards through 0 with positive and negative numbers
- Understand the value of HTh, TTh, Th, H, T & Ones
- Round numbers to the nearest 10, 100, 1000, 10000, 100000

Multiplication and Division Facts

- Continue to rehearse all multiplication tables up to 12×12 and division facts
- Recall prime numbers up to 19
- Recognise and use square numbers and cube numbers, and the notation for squared 2 and cubed 3
- Multiply and divide by 10, 100, 1000
- Find related multiplication and division facts e.g. $3 \times 4 = 12$, $30 \times 4 = 120$

Number Bonds

- Know all addition and subtraction facts for decimals that total 1 (one DP)
- Know all addition and subtraction facts for decimals that total 10 (one DP)
- Find all the factor pairs of a number

Doubling and Halving

- Know doubles and halves of all whole numbers to 100
- Know doubles and halves of all multiples of 10 to 1000
- Know doubles and halves of all multiples of 100 to 10,000

Addition and Subtraction

- Add and subtract numbers mentally with increasingly large numbers
- Find related addition and subtraction facts e.g. $4 + 5 = 9$, $40 + 50 = 90$, $400 + 500 = 900$

Measures

- Read Roman Numerals to 1000
- Know:
 - mm in cm
 - ml in a l
 - g in a kg
 - angles of a triangle