



## Year Five Mental Maths Objectives

- *Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit*  
e.g. What is the value of the 6 in 681,927?
- *Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000*  
e.g. What is 1000 more than 37,856?
- *Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero*  
e.g. Continue the sequence: -7, -14, -21...
- *Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10, 000 and 100,000*  
e.g. Round 723,178 to the nearest hundred thousand
- *Add and subtract numbers mentally with increasingly large numbers*  
e.g. What is  $12,463 - 2300$ ?
- *Recall prime numbers up to 19*  
e.g. Write down all the prime numbers up to 10
- *Multiply and divide numbers mentally drawing upon known facts*  
e.g. What is  $179 \times 8$ ?
- *Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000*  
e.g. What is  $35.6 \times 100$ ?
- *Recognise and use square numbers and cube numbers*  
e.g. Write 2 square numbers between 5 and 20
- *Double and halve three-digit numbers*  
e.g. What is double 386?

- Compare and order fractions whose denominators are all multiples of the same number  
e.g. Enter the correct sign between the fractions ( $<$ ,  $>$  or  $=$ )  $7/8$ ,  $13/16$
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number  
e.g. What is  $1/8 + 3/4$ ?
- Read and write decimals as fractions  
e.g. Express 0.71 as a fraction
- Round decimals with two decimal places to the nearest whole number and to one decimal place  
e.g. Round 4.67 to the nearest whole number
- Recognise the percent symbol (%) and understand that percent relates to 'number of parts per hundred' and write percentages as a fraction with denominator and as a decimal  
e.g. Express 48% as a fraction with denominator 100
- Solve problems which require knowing percentage and decimal equivalents of  $1/2$ ,  $1/4$ ,  $1/5$ ,  $2/5$ ,  $4/5$  and those fractions with a denominator of a multiple of 10 or 25.  
e.g. Write  $7/100$  as a decimal

