

Mental Maths Targets for Key Stages 1 and 2

These are the mental maths targets that children are expected to know by the end of each academic year. Mental maths refers to the rapid recall of facts i.e. the child should know them off by heart or carry out a quick calculation in their head to find the answer.

The targets are accumulative and so e.g. children in Year 4 are expected to know all of the previous year's targets as well as the targets they are currently working on. For further information on how these strategies are taught or what they mean, please see your child's class teacher.

Year 1

- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- count, read and write numbers to 100 in numerals
- count in multiples of 2s
- count in multiples of 5s
- count in multiples of 10s
- given a number, identify 1 more
- given a number, identify 1 less
- read and write numbers from 1 to 20 in numerals and words
- know number bonds and related subtraction facts within 20
- add and subtract one-digit and two-digit numbers to 20, including 0
- recognise and name common 2-D shapes
- recognise and name common 3-D shapes

Year 2

All of the above and:

- count forwards and backwards in steps of 2 from zero
- count forwards and backwards in steps of 3 from zero
- count forwards and backwards in steps of 5 from zero
- count forwards and backwards in steps of 10 from zero
- recognise the place value of each digit in a two-digit number
- compare and order numbers from 0 up to 100; using <, > and = signs
- read and write numbers to at least 100 in numerals and in words
- recall and use addition and subtraction facts to 20
- recognise and use the inverse relationship between addition and subtraction
- recognising odd and even numbers
- know the number of minutes in an hour and the number of hours in a day
- know the 2 times tables in any order
- know the 5 times tables in any order
- know the 10 times tables in any order

Year 3

All of the above and:

- count from 0 in multiples of 4
- count from 0 in multiples of 8
- count from 0 in multiples of 50
- count from 0 in multiples of 100
- find 10 or 100 more or less than a given number
- recognise the place value of each digit in a 3-digit number
- compare and order numbers up to 1,000
- read and write numbers up to 1,000 in numerals and in words
- add and subtract numbers mentally
- count up and down in tenths
- know the number of seconds in a minute and the number of days in each month, year and leap year
- know the 2, 3, 4, 5, and 10 times tables in any order and corresponding division facts
e.g. if $5 \times 3 = 15$, $15 \div 3 = 5$

Year 4

All of the above and:

- count in multiples of 6
- count in multiples of 7
- count in multiples of 6
- count in multiples of 9
- count in multiples of 25
- count in multiples of 1000
- find 1,000 more or less than a given number
- count backwards through 0 to include negative numbers
- recognise the place value of each digit in a four-digit number
- round any number to the nearest 10
- round any number to the nearest 100
- round any number to the nearest 1000
- use place value, known and derived facts to multiply and divide mentally
- recognise factor pairs
- count up and down in hundredths
- recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$
- round decimals with 1 decimal place to the nearest whole number
- know all times tables to 12×12 and the corresponding division facts

Year 5

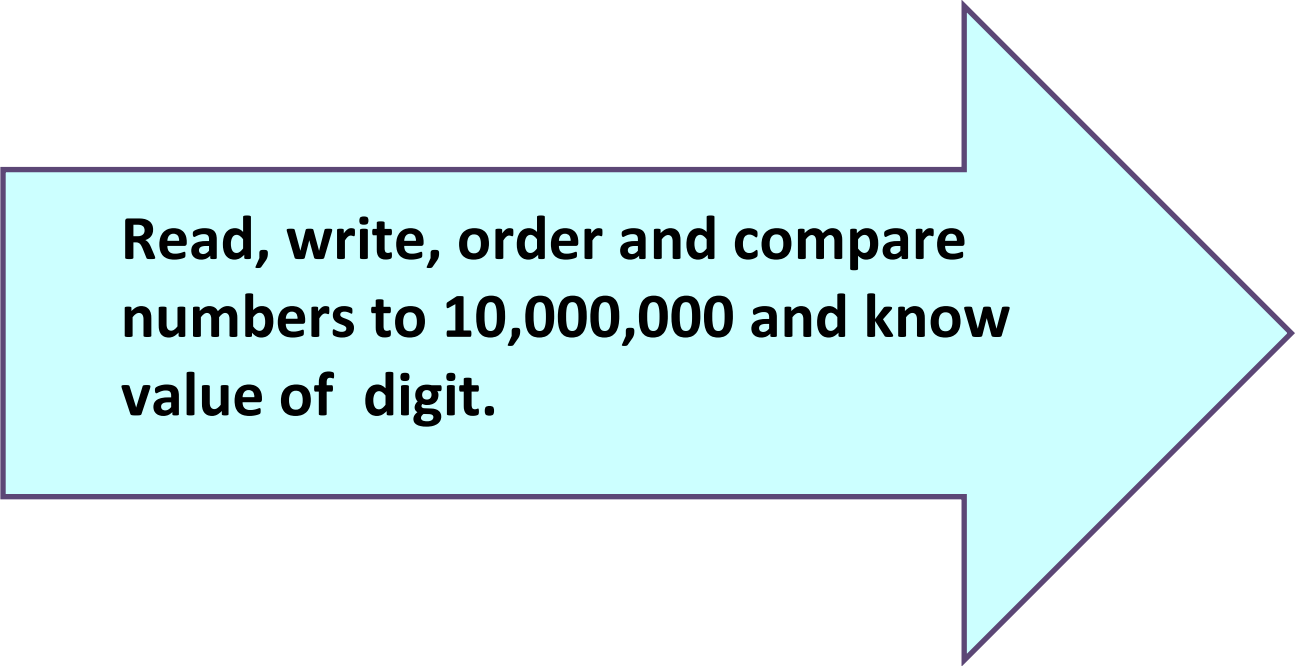
All of the above and:

- read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
- count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
- round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000, 100,000, 1,000,000
- add and subtract numbers mentally with increasingly large numbers
- identify multiples and factors
- Find all factor pairs of a number
- Find common factors of 2 numbers
- know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- recall prime numbers up to 19
- multiply and divide numbers mentally, drawing upon known facts
- multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
- read and write decimal numbers as fractions
- recognise and use square numbers and notation for squared (²)
- recognise cube numbers, and the notation for cubed (³)
- know all times tables to 12 x 12 and the corresponding division facts

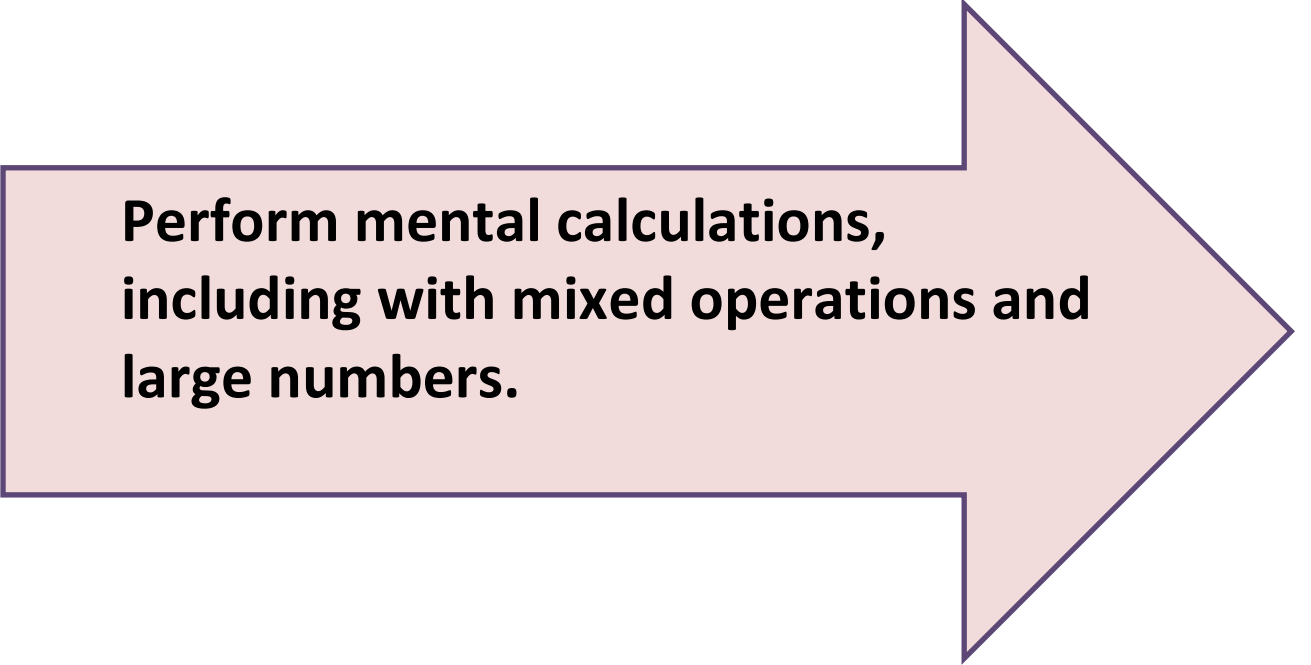
Year 6

All of the above and:

- read, write, order and compare numbers to 10,000,000 and know value of digit
- round any whole number to a required degree of accuracy
- perform mental calculations, including with mixed operations and large numbers
- identify common factors, common multiples and prime numbers
- identify the value of each digit in numbers given to 3 decimal places
- multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places
- recall and use equivalences between simple fractions, decimals and percentages
- know all times tables to 12 x 12 and the corresponding division facts



Read, write, order and compare numbers to 10,000,000 and know value of digit.



Perform mental calculations, including with mixed operations and large numbers.



Identify the value of each digit in numbers given to 3 decimal places.



**Know all times tables to 12 x 12 and
the corresponding division facts.**



Know all times tables to 12 x 12 and the corresponding division facts.