



## Number and Place Value

1. I can read, write, order and compare numbers to at least 1,000,000 (one million) and say the value of each digit
2. I can keep multiplying a number by 10 or 100 up to 1,000,000 and count back
3. I can use negative numbers in context when looking at temperature or money; counting forwards and backwards through 0
4. I can round numbers up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000
5. I can solve number and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards or backwards in steps, negative numbers and rounding
6. I can read Roman numerals to 1000 and recognise years written in these

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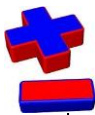
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## Addition and Subtraction (+-)

1. I can add and subtract numbers with more than 4 digits using written methods
2. I can add and subtract 2 and 3 digit numbers in my head
3. I can use rounding to check answers to calculations and determine levels of accuracy
4. I can solve addition and subtraction problems needing more than one step and can work out which operation and method is most suitable

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## Multiplication and Division (X÷)

1. I can find multiples and factors of a number and can identify factors common to 2 different numbers
2. I can use vocabulary relating to prime numbers, prime factors and composite numbers
3. I can work out if any given number up to 100 is a prime number and can recall prime numbers up to 19
4. I can multiply numbers with up to 4 digits by a one or two digit number using formal written methods
5. I can mentally multiply and divide numbers using the times tables
6. I can divide numbers with up to 4 digits by a one digit number using formal written methods and can explain remainders
7. I can multiply and divide whole and decimal numbers by 10, 100 and 1000

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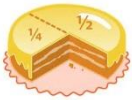
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### Multiplication and Division Continued...(X÷)

- I can identify and use square and cube numbers and their notations
- I can solve problems involving multiplication and division including using factors and multiples, squares and cubes
- I can solve problems involving addition, subtraction, multiplication and division and a combination of these
- I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

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### Fractions

- I can compare and order fractions whose denominators are all multiples of the same number
- I can find, name and write equivalent fractions of a given fraction including tenths and hundredths
- I can identify mixed numbers and improper fractions and convert from one to another such as  $2/5 + 4/5 = 6/5 = 1 \ 1/6$
- I can add and subtract fractions whose denominators are all multiples of the same number
- I can multiply fractions by whole numbers using objects and pictures
- I can read and write decimal numbers as fractions such as  $0.71 = 71/100$
- I can identify and use thousandths and can explain how they relate to tenths and hundredths and their decimal equivalents
- I can round numbers with two decimal places
- I can read, write, order and compare numbers with up to three decimal places
- I can solve problems involving numbers with up to three decimal places
- I can identify the percent symbol % and how it relates to parts per hundred, hundredths and decimals
- I can 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

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### Measurement

- I can convert between different forms of metric measurement e.g. Kilometre and metre; centimetre and metre; centimetre and millimetre, gram and kilogram, Litre and millilitre
- I can understand and compare equivalences between metric units and common imperial units. These might include: inches, pounds or pints
- I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

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### Measurement Continued...

1. I can calculate and compare the area of rectangles ( including squares), and including using standard units, square centimetres (cm<sup>2</sup>), square metres (m<sup>2</sup>) and estimate the area of irregular shapes
2. I can estimate volume by using 1cm<sup>3</sup> blocks to build cuboids (including cubes) and capacity by using water and different containers
3. I can solve problems where I need to convert between units of time
4. I can use all four operations to solve problems involving measure such as length, mass, volume, money, using decimal notation, including scaling

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### Properties of Shape

1. I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations
2. I can estimate and compare acute, obtuse and reflex angles. I know that angles are measured in degrees
3. I can draw given angles and measure them in degrees
4. I can identify angles at a point and one whole turn
5. I can identify angles at a point on a straight line and 1/2 a turn (total 180°)
6. I can identify other multiples of 90°
7. I can use the properties of rectangles to find related facts, missing lengths and missing angles
8. I can tell the difference between regular and irregular polygons. I can do this using reasoning about equal sides and angles

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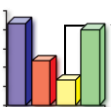
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### Position and Direction

1. I can identify, describe and represent the position of a shape following a reflection or translation. I can use mathematical vocabulary to explain this and I know that the shape has not change

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### Statistics

1. I can solve comparison, sum and difference problems using information presented in a line graph
2. I can complete, read and interpret information in tables, including timetables

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