

- 1. Counting to and across 100, forwards and backwards, beginning with zero or one, or from any given number
- 2. Counting, reading and writing numbers to 100 in numerals and numbers one to 20 in numerals and words; counting in multiples of two, five and ten
- 3. Given a number within 100, identifying one more and one less
- 4. Representing and using number bonds and related subtraction facts within 20
- 5. Solving one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and solving missing-number problems
- 6. Solving problems that involve grouping and sharing, including halving and doubling
- 7. Comparing, describing and solving practical problems for length and height, mass or weight, and capacity and volume
- 8. Comparing, describing and solving practical problems for time and telling the time to the hour and half past the hour; drawing the hands on a clock face to show these times
- 9. Recognising and naming common 2-D shapes, including rectangles (including squares), circles and triangles
- **10.** Recognising and naming common 3-D shapes, including cuboids (including cubes), pyramids and spheres.



- 1. Compare and order numbers from zero up to 100 using the <, > and = signs
- 2. Recognise the place value of each digit in a two-digit number
- 3. Count in steps of two, three and five from zero, and in tens from any number, forward and backward
- 4. Recall and use addition and subtraction facts to 20 fluently, deriving and using related facts to 100
- 5. Solve problem with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers quantities and measures including money (and giving change)
- 6. Recall and use multiplication and division facts for the two, five and ten multiplication tables, including recognising odd and even numbers
- 7. Solves problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
- 8. Recognise, find, name and write fractions , , and of a length, shape, set of objects or quantity
- 9. Solve simple problems in a practical context involving addition and subtraction of mass, capacity and length
- 10. Compare and sort common 2-D and 3-D shapes and everyday objects and order and arrange combinations in patterns and sequences
- 11. Use mathematical vocabulary to describe position, direction and movement including movement in a straight line, and distinguish between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise)
- 12. Ask and answer questions about totalling and comparing categorical data
- 13. Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times



- 1. Counting from zero in multiples of four, eight, 50 and 100
- 2. Recognising the place value of each digit in a three-digit number (hundreds, tens and ones) and finding 100 more or less than a given number
- 3. Using place value and number facts to solve number problems and practical problems
- 4. Adding and subtracting numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds
- 5. Applying addition and subtraction to numbers with up to three digits using the columnar addition method
- 6. Solving scaling and correspondence problems for multiplication and division using the multiplication tables that are known, including problems that involve multiplying a two-digit number by a one-digit number
- 7. Recognising, finding and writing fractions of a discrete set of objects, including unit fractions and non-unit fractions with small denominators
- 8. Measuring, comparing, adding and subtracting: lengths (m, cm, mm); mass (kg, g); volume or capacity (\(\llorer\), ml)
- 9. Telling and writing the time from an analogue clock and in 12-hour format, and comparing durations of events
- 10. Identifying right angles; recognising that two right angles make a half-turn, three right angles make three quarters of a turn and four right angles a complete turn; identifying whether angles are greater than or less than a right angle
- 11. Interpreting and presenting data using bar charts, pictograms and tables.



- 1. Count in multiples of six, seven, nine, 25 and 1000
- 2. Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) and find 1000 more or less than a given number
- 3. Round any number to the nearest ten, hundred or thousand
- 4. Solve addition and subtraction two-step problems in contexts, including measures and money, deciding which operations and methods to use and why including columnar addition and subtraction where appropriate
- 5. Solve multiplication and division problems using recall of the multiplication tables up to 12×12 including integer scaling and correspondence problems
- 6. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit and record using formal written layout where appropriate
- 7. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
- 8. Recognise equivalent fractions and write decimal equivalents to and any number of tenths or hundredths including in the context of simple measure and money problems
- 9. Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
- 10. Read, write and convert time between analogue and digital 12- and 24-hour clocks
- 11. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
- 12. Identify lines of symmetry in 2-D shapes presented in different orientations
- 13. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
- 14. Interpreting and presenting data using bar charts, pictograms and tables.



- 1. Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit; including counting forwards and backwards in steps of powers of 10.
- 2. Use and interpret negative numbers in context, and calculate intervals across zero.
- 3. Add and subtract whole numbers with more than 4 digits flexibly.
- 4. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
- 5. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.
- 6. Compare and order fractions, including mixed number and improper fractions whose denominators are all multiples of the same number.
- 7. Solve problems involving numbers up to 3 decimal places including reading, writing, ordering and comparing numbers.
- 8. Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling.
- 9. Convert between different units of measure (e.g. kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
- 10. Calculate and compare the areas of rectangles, including standard units of square cm and square m, and estimate the area of irregular shapes.
- 11. Know angles are measured in degrees and estimate, compare, draw and measure acute, obtuse and reflex angles.
- 12. Identify angles at a point and one whole turn (total 360°); angles at a point on a on a straight line and half a turn (total 180°); other multiples of 90°.
- 13. Identify, describe and represent coordinates in the first quadrant.
- 14. Complete, read and interpret information in tables, including timetables.



- 1. Round any whole number to a required degree of accuracy.
- 2. Decide which methods to use when solving multi-step problems involving addition, subtraction, multiplication and division, using estimation to check answers.
- 3. Divide numbers up to 4 digits by a one- or two-digit whole number using the appropriate formal written methods of short and long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate.
- 4. Identify common factors, common multiples and prime numbers.
- 5. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
- 6. Multiply simple pairs of proper fractions and divide a proper fraction by a whole number, writing answers in their simplest form.
- 7. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
- 8. Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.
- 9. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
- 10. Understand and use algebraic notation to solve simple problems.
- 11. Use, read and write standard units; converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
- 12. Choose and use the appropriate formula for finding the area of 2-D shapes, including parallelograms and triangles.
- 13. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in triangles, quadrilaterals and regular polygons.
- 14. Draw 2-D shapes using given dimensions and angles.
- 15. Draw and translate simple shapes on the coordinate plane, in all four quadrants, and reflect them in the axes.