



Place Value

- Know roman numerals up to 1,000.
- Understand place value up to 1,000,000.
- Read and write numbers to 1,000,000.
- Partition numbers up to 1,000,000.
- Compare and order numbers up to 100,000.
- Round to nearest 10, 100 & 1000.

Addition and Subtraction

- Add whole numbers with more than four digits.
- Subtract numbers with more than four digits.
- Use inverse operations.
- Finding missing numbers in operations.

Multiplication and Division

- Find multiples.
- Find factors.
- Know what a prime number is.
- Know what a square number is.
- Know what a cube number is.
- Multiply by 10, 100 and 1000.
- Divide by 10, 100 and 1000.

Fractions

- Find equivalent fractions.
- Convert from mixed to improper.
- Convert from improper to mixed.
- Add and subtract fractions with the same denominator.
- Add and subtract fractions with different denominators.

Multiplication and Division

- Multiply up to a 4 digit by 1 digit number.
- Multiply 2 digits by 2 digits.
- Multiply 3 digits by 2 digits.
- Divide a 4 digit number by a 1 digit number.

Fractions

- Multiply a fraction by an integer.
- Multiply a fraction by a fraction.
- Calculate a fraction of an amount.



Decimals and Percentages

Recognise decimal place value up to 2.d.p.

Find equivalent fractions and decimals (tenths).

Find equivalent fractions and decimals (hundredths).

Find equivalent fractions and decimals (thousandths).

Compare and order decimals (same place value).

Round to the nearest whole number.

Write a percentage as a fraction.

Equivalent F/D/P of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and multiples of 10 and 25.

Perimeter and Area

Calculate perimeter of rectangles.

Calculate perimeter of rectilinear shapes.

Perimeter of polygons.

Area of rectangles.

Area of compound shapes.

Shape

Understand half turns, full turns etc.

Identify and name angles.

Estimate, measure and draw angles to 180° .

Calculate angles around a point and on a straight line.

Label and draw irregular and regular polygons.

Name and identify 3D shapes including nets.

Calculate faces, edges and vertices.

Position and Direction

Read and plot coordinates (positive quadrant).

Translate a shape using directions.

Identify and draw lines of symmetry.

Reflect in horizontal and vertical lines.

Statistics

Draw line graphs.

Read and interpret line graphs.

Read and interpret tables.

Two-way tables.

Read and interpret timetables.

Negative Numbers

Understand temperatures and distance with negative numbers (Reading scales).

Count up and down through zero in different multiples, using a number lines too.

Compare and order negative numbers using inequalities.

Find the difference between negative numbers.

Decimals

Complements to 1 (2 decimal places).

Add and subtract decimals with same places values.

Add and subtract decimals with different place values.

Multiply by 10, 100 and 1000.

Divide by 10, 100 and 1000.

Volume

Count cubes to find volume.

Understands volume terminology.

Choosing appropriate measures.

Converting Units

Choosing appropriate measures.

Convert between metric units of mass.

Convert between metric units of length.

Convert between metric units of capacity.

Convert between metric and imperial.

Convert units of time.

Negative Numbers

Understand temperatures and distance with negative numbers (Reading scales).

Count up and down through zero in different multiples, using a number lines too.

Compare and order negative numbers using inequalities.

Find the difference between negative numbers.