

Knowledge: *I understand and know that/ I can explain*

- Ten thousand is composed of ten 1,000s, two 5,000s, four 2,500s and five 2,000s
- One hundred thousand is composed of one hundred 1,000s, two 50,000s, four 25,000s and five 20,000s
- The same 3D shape can be composed from different 2D nets
- A parallelogram can be decomposed and rearranged to form a rectangle
- Two congruent triangles can be composed to form a parallelogram
- Shapes with the same area can have different perimeters
- Shapes with the same perimeters can have different areas
- Percent means for or out of every one hundred
- The mean is the size of each part when a quantity is shared equally
- The radius of a circle is the distance from its centre to any point on its edge
- The diameter of a circle is the straight-line distance from one edge to another, passing through the centre
- The circumference of a circle is the total distance around its edge
- The diameter of a circle is twice the radius

Skills: *I can confidently*

- ✓ Round seven-digit numbers to any power of 10
- ✓ Add and subtract numbers with up to seven digits using column algorithms
- ✓ Multiply a three-digit number by a two-digit number using long multiplication
- ✓ Create a ratio chart for a two-digit divisor
- ✓ Divide a three-digit number by a two-digit number using long division, with and without remainders
- ✓ Calculate the area of a triangle and a parallelogram
- ✓ Describe, draw, reflect and translate shapes on a coordinate grid using all four quadrants
- ✓ Write a fraction in its simplest form
- ✓ Add and subtract non-related fractions
- ✓ Multiply two non-unit fractions
- ✓ Divide a unit fraction by a whole number
- ✓ Convert a percentage to a decimal and a fraction
- ✓ Calculate any percentage of a number
- ✓ Calculate the mean average of a set of data

Key Vocabulary

addend, sum, equation, minuend, subtrahend, difference, million, powers, triangle, rectangle, parallelogram, congruent, associative law, distributive law, ratio chart, triangle, parallelogram, scale factor, quadrant, coordinate, axes, simplify, mean average, radius, diameter, circumference