

# Number- Place Value



Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit



Round any whole number to a required degree of accuracy



Use negative numbers in context, and calculate intervals across zero



Solve number and practical problems that involve all of the above

KEY STAGE TWO SATS REVISION

## YEAR 6 NUMBER Place Value



5 video tutorials

8 worksheets

21 past sats question examples

All answers included





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# Number: Calculation


 Solve problems involving addition, subtraction, multiplication and division

 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

 Perform mental calculations, including with mixed operations and large numbers


 Use their knowledge of the order of operations to carry out calculations involving the four operations


 Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

 Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

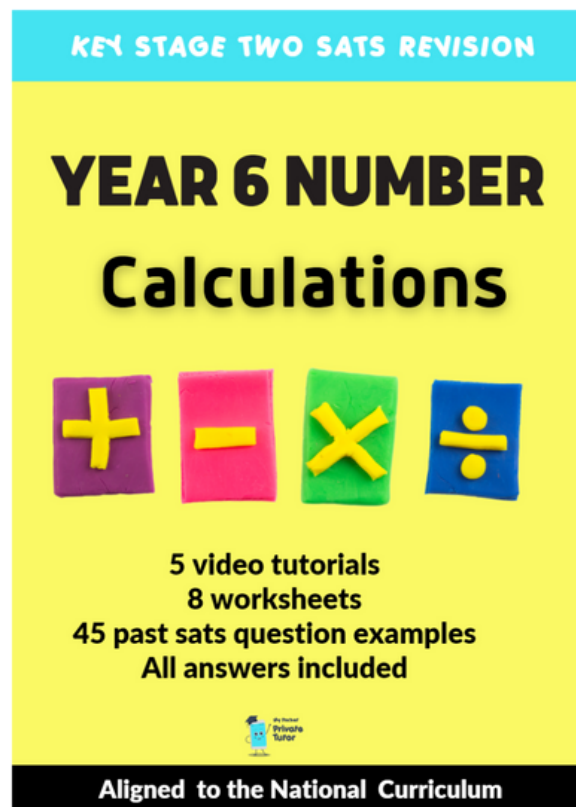
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# Number: Calculation

 Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

 Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

 Identify common factors, common multiples and prime numbers



# Number: Fractions



Use common factors to simplify fractions; use common multiples to express fractions in the same denomination



Compare and order fractions



Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions



Multiply simple pairs of proper fractions, writing the answer in its simplest form







Divide Proper Fractions by Whole Numbers Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction



Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

**continued...**


# Number: Fractions contd...

-  Multiply one-digit numbers with up to two decimal places by whole numbers
-  Use written division methods in cases where the answer has up to two decimal places
-  Solve problems which require answers to be rounded to specified degrees of accuracy
-  Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.


**KEY STAGE TWO SATS REVISION**

**YEAR 6 NUMBER**

**Fractions - Decimals - Percentages**



**11 video tutorials**  
**16 worksheets**  
**51 past SATs question examples**  
**All answers included**

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# Ratio & proportion



Solve problems involving similar shapes where the scale factor is known or can be found



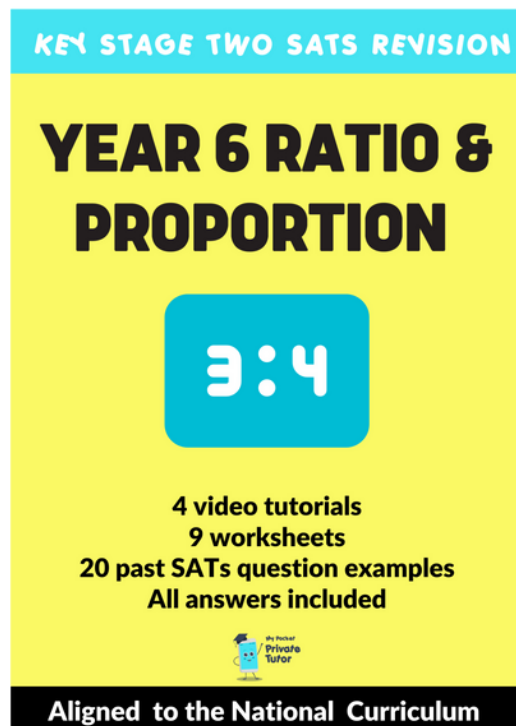
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.



Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts



Solve problems involving the calculation of percentages and the use of percentages for comparison.



# Algebra



Use simple formulae



Generate and describe linear number sequences



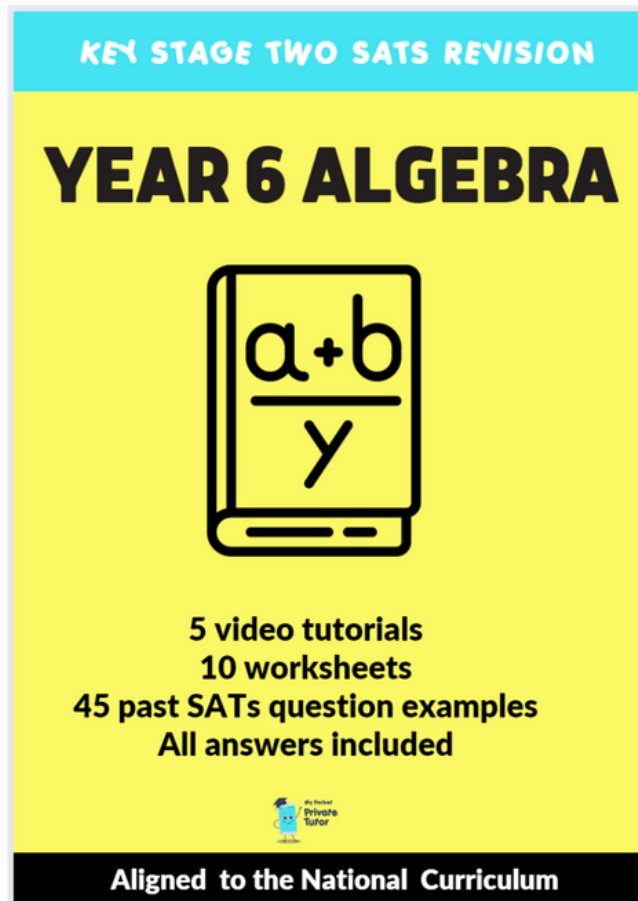
Express missing number problems algebraically



Find pairs of numbers that satisfy an equation with two unknowns



Enumerate possibilities of combinations of two variables



# Measurement



Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate



Use, read, write and convert between 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



Convert between miles and kilometres



Recognise that shapes with the same areas can have different perimeters and vice versa



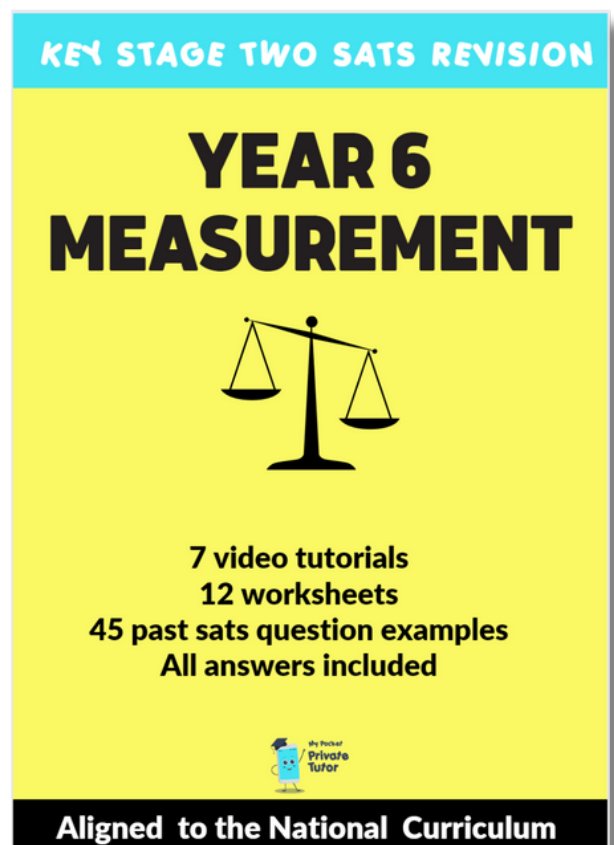
Recognise when it is possible to use formulae for area and volume of shapes



Calculate the area of parallelograms and triangles



Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres, and extending to other units





# Geometry



Draw 2D shapes using given dimensions and angles



Recognise, describe and build simple 3D shapes, including making nets



Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons



Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius



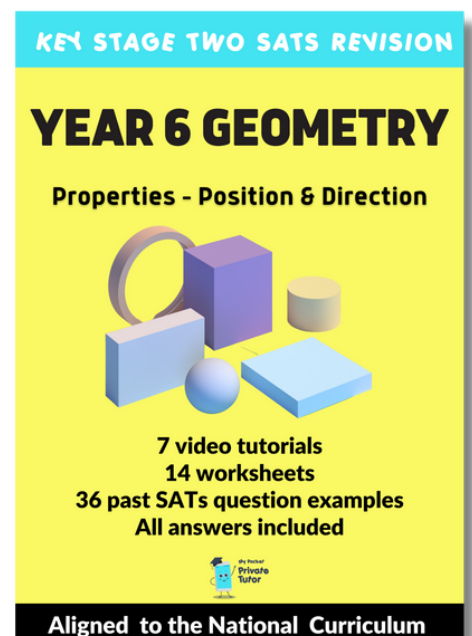
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.



Describe positions on the full coordinate grid (all four quadrants)



Draw and translate simple shapes on the coordinate plane, and reflect them in the axes



# Statistics



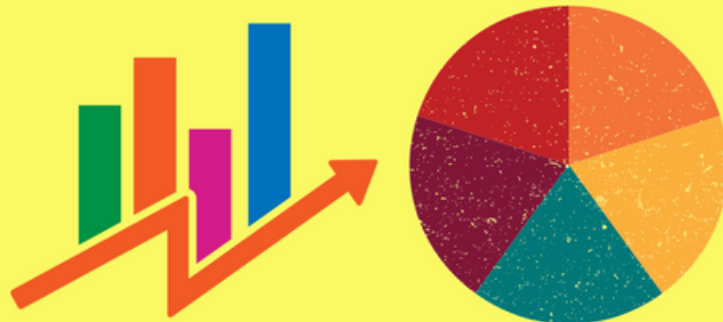
Interpret and construct pie charts and line graphs and use these to solve problems



Calculate and interpret the mean as an average

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## **YEAR 6 STATISTICS**



**5 video tutorials**

**10 worksheets**

**45 past sats question examples**

**All answers included**



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