









KS2 SATs Topic Checklist — Maths



Number and Place Value		
I can count in multiples of 4, 6, 7, 8, 9, 25, 50, 100 and 1000.		
I can count forwards and backwards in steps of powers of 10 (10, 100, 1000, etc.)		
I can read and write numbers in numerals and in words.		
I can order and compare numbers.		
I can recognise the place value of each digit in numbers up to 10 000 000.		
I can read Roman numerals up to 1000 (M) and recognise years written in Roman numerals.		
I can round any whole number to a given degree of accuracy, such as the nearest 10, 100, 1000, 10 000 or 100 000.		
I can use negative numbers to solve problems.		

Calculations		
I can add and subtract numbers in my head.		
I can add and subtract numbers using written methods.		
I can estimate the answer to a calculation, and use this to check if my answer is sensible.		
I can use inverse operations to check if my answer is correct.		
I can recognise prime numbers.		
I can find multiples of a number.		
I can find the factors of a number.		
I can find common factors and common multiples.		





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Calculations (continued)		
I can find the prime factors of a number.		
I can recognise and use square numbers and cube numbers.		
I can multiply and divide numbers in my head using my knowledge of times tables.		
I can multiply and divide by 10, 100 and 1000.		
I can multiply numbers by a one-digit number using a written method.		
I can multiply numbers by a two-digit number using a written method.		
I can divide numbers by a one-digit number using a written method.		
I can divide numbers by a two-digit number using a written method.		
I can give a remainder as a whole number or as a fraction, and I can explain what remainders mean in different contexts.		
I can solve problems using addition, subtraction, multiplication and division.		
I know what order to do the operations in a calculation (BODMAS).		

Fractions, Decimals and Percentages		
I can count forwards and backwards in tenths and hundredths.		
I can find fractions of amounts or sets of objects.		
I can recognise and find equivalent fractions.		
I can convert between mixed numbers and improper fractions.		
I can simplify fractions.		





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Fractions, Decimals and Percentages (continued)		
I can compare and order fractions.		
I can add and subtract fractions.		
I can multiply fractions by whole numbers.		
I can multiply two fractions together.		
I can divide a fraction by a whole number.		
I can round decimals to the nearest whole number or to one decimal place.		
I can compare and order numbers with up to three decimal places.		
I can recognise the value of each digit in numbers with up to three decimal places.		
I can multiply numbers with up to two decimal places by whole numbers.		
I can use written division methods to give answers with up to two decimal places.		
I know that per cent means “out of 100”.		
I can convert between fractions, decimals and percentages.		

Ratio and Proportion		
I can solve problems involving the relative sizes of two amounts.		
I can solve problems that involve unequal sharing.		
I can find a percentage of a number.		
I can use a scale factor to enlarge a shape and I can find the scale factor for two similar shapes.		





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Algebra		
I can write and solve missing number problems using symbols and letters.		
I can use formulas.		
I can use a rule to work out the numbers in a sequence, and I can find the rule for a sequence that I'm given.		
I can find pairs of numbers that solve problems with two missing numbers.		

Measurement		
I can read scales that measure length, mass and volume.		
I can compare length, mass, volume and amounts of money.		
I can use analogue clocks (including with Roman numerals) and digital 12-hour and 24-hour clocks, and I can convert between them.		
I can convert between units of time (e.g. hours and minutes, minutes and seconds, years and months, weeks and days).		
I can compare how long events last for.		
I can convert between different metric units (e.g. centimetres and millimetres, litres and millilitres, kilograms and grams).		
I can convert between imperial and metric units (e.g. inches and centimetres, pounds and kilograms, pints and litres, miles and kilometres).		
I can find the perimeters of shapes.		
I know that shapes with the same area can have different perimeters, and shapes with the same perimeter can have different areas.		
I can find the area of shapes by counting squares, and I can estimate the area of irregular shapes.		
I can calculate the area of squares, rectangles, triangles and parallelograms.		
I can find the volume of a 3D shape by counting blocks.		





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Measurement (continued)		
I can calculate the volume of cubes and cuboids.		
I can solve problems that involve money.		
I can solve problems that involve length, mass and volume.		

Geometry		
I can identify horizontal, vertical, parallel and perpendicular lines.		
I know the properties of different types of 2D shape, including quadrilaterals and triangles.		
I know the properties of regular and irregular polygons.		
I can find lines of symmetry in 2D shapes.		
I can complete a shape if I know its line of symmetry.		
I can draw 2D shapes if I'm told the lengths of the sides and the sizes of the angles.		
I can describe 3D shapes (e.g. spheres, cylinders, cones, pyramids).		
I can draw nets of 3D shapes, and recognise 3D shapes from their nets.		
I can identify acute, obtuse, reflex and right angles.		
I can estimate and compare angles.		
I can find missing angles in triangles, quadrilaterals and regular polygons.		
I can find missing angles using "angles round a point add up to 360°" and "angles on a straight line add up to 180°".		
I can use a protractor to draw and measure angles.		



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Geometry (continued)		
I can identify and draw the radius, diameter and circumference of a circle, and I know that the diameter is twice the radius.		
I can describe and draw translations of shapes.		
I can reflect a shape in a line, including in the coordinate axes.		
I can describe positions on a grid using coordinates.		
I can plot coordinates, and use this skill to draw shapes on a grid.		

Statistics		
I can read and present information in tables.		
I can interpret and draw bar charts.		
I can interpret and draw pictograms.		
I can interpret and draw line graphs.		
I can interpret and draw pie charts.		
I can solve problems involving tables, bar charts, pictograms, line graphs and pie charts.		
I can read and solve problems with timetables.		
I know that the mean is an average, and I can calculate the mean of a set of numbers.		