

Assessment resource number	Assessment resource title	Assessment resource question number	Total number of marks	Content coverage (high level)	Content coverage (breakdown)	AO coverage	Component	Tier
1	Non-calculator Assessment resource A	1	3	Geometry	Plans and elevations	2	5300/01	Foundation
		2	4	Algebra and geometry	Coordinate grid problem	1 3	C300U10	
		3	8	Number	Money: shopping problem, change calculation, 3 for 2 problem	All		
		4	5	Geometry	Area of triangle; perimeter of compound shape problem	1 3		
		5	4	Geometry	Bearings	1 3		
		6	4	Geometry	Parallel line and isosceles triangle problem	2 3		
		7	5	Number	Fractions: addition and division problem	1 3		
		8	6	Number	Product of prime factors; HCF problem	1 3		
		9	2	Geometry	Vector arithmetic	1		
			Total = 41					
2	Non-calculator Assessment resource B	1	7	Statistics and number	Bar chart and pictogram; number problem	All	5300/01	Foundation
		2	3	Probability	Possibility space; probability	1	C300U10	
		3	5	Algebra	Use of algebra: simplify expressions, use formula, write formula	1		
		4	9	Statistics, geometry and probability	Mode, range, probability; scatter diagram and time conversion	1 2		
		5	8	Algebra	Linear equations and inequality	1 2		
		6	2	Statistics	Criticise diagram and interpret data	2		
		7	7	Algebra	Quadratic function: graph and properties	1 2		
			Total = 41					
3	Non-calculator Assessment resource C	1	7	Number	Basic arithmetic, fractions, decimals, percentage	1	5300/01	Foundation
		2	5	Number	Cost comparison of insurance offers and cost per day	1	C300U10	

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		3	6	Ratio, proportion, rates of change and geometry	Interpreting a table of nutritional information	All		
		4	7	Ratio, proportion, rates of change	Ratio: simplify, 3-part problem, percentage increase	1 3		
		5	3	Ratio, proportion, rates of change	Equivalent ratio; direct proportion problem.	2		
		6	5	Ratio, proportion, rates of change	Fraction and percentage problem	1 3		
		7	5	Number and ratio, proportion, rates of change	Limit of accuracy and direct proportion	3		
			Total = 38					
4	Non-calculator Assessment resource D	1	3	Probability	Spinners and probability scales; probability of not	1 2	5300/01	Foundation
		2	7	Number	Money problems: discount and delivery; deposit and instalments	1 3	C300U10	
		3	6	Number and ratio, proportion, rates of change	Fraction problem; exchange rates	1 3		
		4	7	Number and ratio, proportion, rates of change	Two-way table and 2-part ratio problem	1 3		
		5	6	Number	Standard form: write as ordinary form and calculations	1 2		
		6	6	Number and ratio, proportion, rates of change	Number problem and inverse proportion problem	1 3		
		7	4	Number	Fractions: addition and subtraction problem	1 3		
		8	2	Probability	Probability of independent events	3		
			Total = 41					
5	Non-calculator Assessment resource E	1	6	Number	Arithmetic and understanding of mathematical symbols	1	5300/01	Foundation
		2	2	Geometry	Rotational symmetry and congruence	1	C300U10	
		3	8	Number and statistics	Mean and range; ordering numbers and number problem	1 3		
		4	6	Ratio, proportion, rates of change	Better value problem; packing problem	All		
		5	5	Geometry	Bearings	1 3		
		6	7	Ratio, proportion, rates of change	2-part ratio problem; rate per minute problem	1 3		
		7	3	Geometry	Draw plan and elevation	2		

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		8	3	Geometry	Pythagoras and an isosceles triangle problem	1 3		
			Total = 40					
6	Non-calculator Assessment resource F	1	4	Algebra	Use of formula	1 2	5300/01	Foundation
		2	4	Algebra	Number machines	1 2	C300U10	
		3	6	Number and algebra	Temperatures: directed number and conversion graph	1 2		
		4	5	Algebra	Real-life graphs: use of sunrise/sunset graph; time	1 2		
		5	4	Statistics	Scatter diagram	2		
		6	2	Algebra	Change the subject of a formula	1		
		7	4	Statistics	Criticising surveys	2		
		8	3	Algebra	Finding the equation of a straight line	1 2		
		9	7	Algebra	Linear equation, simultaneous equations and inequality	1 2		
			Total = 39					
7	Non-calculator Assessment resource G	1	7	Number	Basic arithmetic, fractions, decimals, percentage	1	5300/01	Foundation
		2	5	Number	Cost comparison of internet packages	1 3	C300U10	
		3	6	Number	Money problems: amount saved, shopping problem with estimation	1 3		
		4	2	Probability	Probability table: total probability, or	1 2		
		5	5	Statistics	Grouped frequency diagrams	1 2		
		6	3	Number	Fraction subtraction	3		
		7	4	Number and Geometry	Calculating with pi	1 3		
		8	5	Number	HCF problem	1 3		
		9	3	Number	Roots and powers	1		
			Total = 40					

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8	Non-calculator Assessment resource H	1	5	Statistics	Line graph and pictogram	2	5300/01	Foundation
		2	3	Number	Bus timetable	1 2	C300U10	
		3	6	Ratio, proportion, rates of change	Ratio: simplify, equivalent ratio problem, percentage increase	1 3		
		4	4	Statistics	Scatter diagram	1 2		
		5	6	Geometry and ratio, proportion, rates of change	Volume of cuboid and flow rate	1 3		
		6	2	Statistics	Criticise graph	2		
		7	3	Ratio, proportion, rates of change	3-part ratio	1 2		
		8	5	Ratio, proportion, rates of change	Pressure problem	1 3		
		9	6	Algebra and ratio, proportion, rates of change	Inverse proportion and direct proportion	1 2		
			Total = 40					
9	Non-calculator Assessment resource I	1	4	Geometry	Symmetry: rotational and line	1	5300/01	Foundation
		2	4	Statistics and ratio, proportion, rates of change	Tally and frequency charts including writing a fraction as a percentage	All	C300U10	
		3	8	Algebra	Algebraic expressions: simplify, write	1 2		
		4	8	Algebra	Number machine and straight line graph	1 2		
		5	3	Algebra	Simple linear equations	1		
		6	6	Geometry	Parallel lines and angles	1 2		
		7	1	Algebra	Equation of parallel line	1		
		8	1	Algebra	Factorise (common factor)	1		
		9	5	Algebra	Forming and solving simultaneous linear equations	1 3		
			Total = 40					
	With calculator							
10	Assessment resource A	1	7	Number	Shopping calculations	All	5300/02	Foundation

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		2	4	Statistics	Interpreting distance chart	1 2	C300U20	
		3	4	Algebra	Algebraic expressions: write, interpret, use	1 2		
		4	4	Probability	Frequency tree	2 3		
		5	5	Algebra and ratio, proportion, rates of change	Conversion graph and exchange rates	2 3		
		6	5	Statistics	Mean and median from grouped frequency table	1		
		7	8	Algebra	Quadratic functions: expand brackets, factorise and solve	1 2		
		8	5	Algebra	Forming and solving simultaneous linear equations	1 3		
			Total = 42					
11	With calculator Assessment resource B	1	5	Number	Place value and understanding of mathematical symbols	1	5300/02	Foundation
		2	5	Ratio, proportion, rates of change	Percentages	All	C300U20	
		3	8	Ratio, proportion, rates of change	2-part ratios	All		
		4	2	Number	Finding a number problem	1 2		
		5	5	Ratio, proportion, rates of change	Better value for money	All		
		6	3	Number	Use of calculator: including rounding, standard form calculation	1		
		7	3	Geometry and ratio, proportion, rates of change	Rectangle area and enlargement	1 3		
		8	4	Number and ratio, proportion, rates of change	Writing calculations efficiently	1 3		
		9	3	Ratio, proportion, rates of change	Depreciation in value	1 2		
			Total = 38					
12	With calculator Assessment resource C	1	8	Geometry	Angle calculations; circle vocabulary	1 3	5300/02	Foundation
		2	6	Geometry	Perimeter and area of shapes made from square tiles	1 3	C300U20	
		3	6	Probability	Identifying probabilities; expected value; total probability problem	All		
		4	4	Probability	Complete Venn diagram; find probability	2		

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		5	6	Ratio, proportion, rates of change	Time, speed, distance calculations	All		
		6	3	Geometry	Trigonometry (finding an angle)	1 2		
		7	5	Ratio, proportion, rates of change	Average speed: 2-part journey	All		
		8	2	Ratio, proportion, rates of change	Density	1		
			Total = 40					
13	With calculator Assessment resource D	1	4	Geometry	Circle vocabulary and construction of triangle	1 2	5300/02	Foundation
		2	4	Geometry	Coordinate grid problem	All	C300U20	
		3	4	Geometry and number	Area of rectangle and rounding problem	1 3		
		4	7	Statistics	Table, bar chart problem and mode; angle in a pie chart and probability	All		
		5	5	Geometry	Parallel lines and angles; angles in an isosceles triangle; identify quadrilateral	1 2		
		6	4	Algebra	Algebraic perimeter of a compound shape	1 3		
		7	3	Algebra and geometry	Angles around a point, forming and solving an equation	1 2		
		8	3	Algebra	Quadratic functions: expand brackets	1		
		9	7	Geometry	Trigonometry (finding an angle). Similar shapes (length)	1 2		
			Total = 41					
14	With calculator Assessment resource E	1	2	Geometry	Identify 3D shape and vocabulary of 3D shapes (faces, edges, vertices)	2	5300/02	Foundation
		2	5	Ratio, proportion, rates of change	Wage calculations (pay rates)	1 2	C300U20	
		3	6	Number and ratio, proportion, rates of change	Writing a large number, percentages and fractions	All		
		4	6	Ratio, proportion, rates of change	Scale factor, direct proportion, 3-part ratio problem	All		
		5	11	Number and ratio, proportion, rates of change	Fraction problem; time, speed, distance calculation	All		
		6	3	Ratio, proportion, rates of change	Compound interest	1 2		
		7	7	Ratio, proportion, rates of change	3-part ratio calculation, percentage problem	All		

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15	With calculator Assessment resource F	1	5	Number	Interpreting a table of costs	1 2	5300/02	Foundation
		2	7	Number	Weekly and monthly pocket money calculations	All	C300U20	
		3	8	Algebra	Use algebraic notation: simplify, expand, solve linear equations, substitute into a formula	1		
		4	7	Ratio, proportion, rates of change	Percentage problems	All		
		5	4	Ratio, proportion, rates of change	mph to km/h conversion and percentage increase	1 3		
		6	8	Statistics	Mean adjustment, mean from grouped frequency table, mean calculation problem	1 2		
			Total = 39					
16	With calculator Assessment resource G	1	5	Algebra	Formulae: substitution into, use of	1 3	5300/02	Foundation
		2	6	Number	Money problems: shopping for 4, change, meal deal saving	1 3	C300U20	
		3	4	Algebra	Sequences from patterns	2		
		4	4	Algebra and geometry	Coordinate grid problem	1 3		
		5	7	Number	Systematic listing; number problem	All		
		6	2	Geometry	Dimensions of a cuboid problem; surface area of cube	3		
		7	4	Algebra	Inequalities	1		
		8	3	Algebra and geometry	Volume of a cylinder	1 3		
		9	5	Algebra and geometry	Forming and solving linear equations; angles in a parallelogram	1 3		
			Total = 40					
17	With calculator Assessment resource H	1	3	Number and algebra	Temperature: directed number, conversion graph	1 2	5300/02	Foundation
		2	3	Ratio, proportion, rates of change	Direct proportion problem	2	C300U20	
		3	6	Ratio, proportion, rates of change	Percentage decrease, simple interest, percentage profit (percentages over 100%)	1		

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		4	6	Ratio, proportion, rates of change	Percentage problems	1 2		
		5	3	Ratio, proportion, rates of change	Best value for money	1 2		
		6	4	Ratio, proportion, rates of change	2-part ratio (sharing); form and simplify a ratio	1 3		
		7	4	Geometry	Angles in a polygon problem: heptagon, isosceles triangle	2		
		8	5	Geometry	Loci: perpendicular bisector, angle bisector	2		
		9	6	Geometry	Pythagoras and trigonometry (finding an angle)	1 2		
			Total = 40					
18	With calculator Assessment resource I	1	4	Number	Identifying types of numbers, e.g. multiple, cube	1	5300/02	Foundation
		2	4	Geometry	Angle calculations	1	C300U20	
		3	6	Probability	Probabilities in a raffle	All		
		4	7	Statistics and ratio, proportion, rates of change	Median and range; direct proportion	All		
		5	6	Ratio, proportion, rates of change	Compound units: km per sec to miles per sec conversion, square miles to square km conversion	1		
		6	5	Ratio, proportion, rates of change	Scale diagram, speed calculation	1 3		
		7	3	Probability	Expected value	1 2		
		8	5	Statistics and ratio, proportion, rates of change	Interpreting a graph, percentage decrease, 2-part ratio calculation	1 2		
			Total = 40					