

### Assessment overview

Content domain	Total
Number	10
Algebra	9
Ratio, proportion and rates of change	5
Geometry and measures	3
Probability	1
Statistics	2

### Question breakdown

Q	Content domain reference
1	N10 express 1 quantity as a percentage of another
2	A15 recognise arithmetic sequences and find the nth term
3	R4 use ratio notation, including reduction to simplest form
4	N10 interpret percentages multiplicatively, express 1 quantity as a percentage of another
5	R2 use scale factors, scale diagrams and maps
6	N5 use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
7	P1 record, describe and analyse the frequency of outcomes of simple probability experiments
8	R1 change freely between related standard units [for example: time, length, area, volume/capacity, mass]
9	A4 simplify and manipulate algebraic expressions to maintain equivalence
10	A9 recognise, sketch and produce graphs of linear and quadratic functions of 1 variable with appropriate scaling, using equations in x and y and the Cartesian plane
11	A4 simplify and manipulate algebraic expressions to maintain equivalence
12	R3 express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1
13	N7 use integer powers and associated real roots, recognise powers of 2, 3, 4, 5 and distinguish between exact representations of roots and their decimal approximations
14	N8 interpret and compare numbers in standard form $A \times 10^n$ $1 \leq A < 10$ , where n is a positive integer or 0
15	N10 define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal

### Question breakdown

Q	Content domain reference
16	N4 use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
17	G8 identify properties of, and describe the results of, translations, rotations and reflections applied to given figures
18	A4 simplify and manipulate algebraic expressions to maintain equivalence
19	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
20	N10 define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal
21	G1 derive and apply formulae to calculate and solve problems involving perimeter, area and volume
22	A15 recognise arithmetic sequences and find the nth term
23	N4 use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
24	A9 recognise, sketch and produce graphs of linear and quadratic functions of 1 variable with appropriate scaling, using equations in x and y and the Cartesian plane
25	A1 use and interpret algebraic notation
26	N7 use integer powers and associated real roots, recognise powers of 2, 3, 4, 5 and distinguish between exact representations of roots and their decimal approximations
27	A9 recognise, sketch and produce graphs of linear and quadratic functions of 1 variable with appropriate scaling, using equations in x and y and the Cartesian plane
28	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
29	G2 calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
30	R5 divide a given quantity into 2 parts in a given part:part or part:whole ratio; express the division of a quantity into 2 parts as a ratio