

Assessment overview

Content domain	Total
Number	4
Algebra	8
Ratio, proportion and rates of change	8
Geometry and measures	4
Probability	2
Statistics	4

Question breakdown

Q	Content domain reference
1	R10 use compound units such as speed, unit pricing and density to solve problems
2	A4 simplify and manipulate algebraic expressions to maintain equivalence
3	R2 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
4	A7 use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
5	P4 generate theoretical sample spaces for single and combined events with equally likely, mutually exclusive outcomes and use these to calculate theoretical probabilities
6	N5 use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
7	R1 change freely between related standard units [for example: time, length, area, volume/capacity, mass]
8	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
9	G10 apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
10	N10 compare 2 quantities using percentages
11	N4 use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
12	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
13	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
14	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
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	G1 derive and apply formulae to calculate and solve problems involving perimeter, area and volume
17	A2 substitute numerical values into formulae and expressions, including scientific formulae
18	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
19	S2 construct and interpret appropriate tables, charts, and diagrams, including for categorical data and for ungrouped and grouped numerical data
20	G2 calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
21	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
22	P2 understand that the probabilities of all possible outcomes sum to 1
23	R8 solve problems involving percentage change, including: percentage increase, decrease and original value problems and simple interest in financial mathematics
24	A15 recognise arithmetic sequences and find the nth term
25	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
26	R4 use ratio notation, including reduction to simplest form
27	R2 use scale factors, scale diagrams and maps
28	G10 apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
29	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
30	R1 change freely between related standard units [for example: time, length, area, volume/capacity, mass]