

Assessment overview

Content domain	Total
Number	4
Algebra	9
Ratio, proportion and rates of change	8
Geometry and measures	4
Probability	1
Statistics	4

Question breakdown

Q	Content domain reference
1	R4 use ratio notation, including reduction to simplest form
2	A7 use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
3	N10 interpret percentages multiplicatively, express 1 quantity as a percentage of another
4	A2 substitute numerical values into formulae and expressions, including scientific formulae
5	N4 use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
6	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
7	N5 use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
8	N10 interpret percentages multiplicatively, express 1 quantity as a percentage of another
9	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
10	R1 change freely between related standard units [for example: time, length, area, volume/capacity, mass]
11	A7 use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
12	A14 generate terms of a sequence from either a term-to-term or a position-to-term rule
13	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
14	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
15	A2 substitute numerical values into formulae and expressions, including scientific formulae

Question breakdown

Q	Content domain reference
16	R8 solve problems involving percentage change, including: percentage increase, decrease and original value problems and simple interest in financial mathematics
17	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
18	R10 use compound units such as speed, unit pricing and density to solve problems
19	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
20	S2 construct and interpret appropriate tables, charts, and diagrams, including for categorical data and for ungrouped and grouped numerical data
21	G10 apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
22	R8 solve problems involving percentage change, including: percentage increase, decrease and original value problems and simple interest in financial mathematics
23	G2 calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
24	R2 use scale factors, scale diagrams and maps
25	R1 change freely between related standard units [for example: time, length, area, volume/capacity, mass]
26	P2 understand that the probabilities of all possible outcomes sum to 1
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	G1 derive and apply formulae to calculate and solve problems involving perimeter, area and volume
29	A15 recognise arithmetic sequences and find the nth term
30	G11 understand and use the relationship between parallel lines and alternate and corresponding angles