Baseline assessment content domain coverage
Year 8 Maths (calculator)

Assessment overview

Content domain	Total
Number	7
Algebra	7
Ratio, proportion and rates of change	4
Geometry and measures	5
Probability	2
Statistics	5

Question breakdown

Q	Content domain reference
1	G10 apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
2	A14 generate terms of a sequence from either a term-to-term or a position-to-term rule
3	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
4	G12 apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
5	A7 use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
6	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
7	G7 derive and illustrate properties of triangles, quadrilaterals, circles, and other plane figures using appropriate language and technologies
8	R3 express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1
9	S1 describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
10	G10 apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
11	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
12	P1 record, describe and analyse the frequency of outcomes of simple probability experiments
13	A7 use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
14	S2 construct and interpret appropriate tables, charts, and diagrams, including for categorical data and for ungrouped and grouped numerical data
15	N4 use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers

Question breakdown

Q	Content domain reference	
16	A1	use and interpret algebraic notation
17	N10	define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal
18	A15	recognise arithmetic sequences and find the nth term
19	N3	use the concepts of prime numbers, factors, multiples, common factors, common multiples, highest common factor, lowest common multiple and prime factorisation
20	A2	substitute numerical values into formulae and expressions, including scientific formulae
21	S2	construct and interpret appropriate tables, charts, and diagrams, including for categorical data and for ungrouped and grouped numerical data
22	R1	change freely between related standard units [for example: time, length, area, volume/capacity, mass]
23	A7	use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
24	G1	derive and apply formulae to calculate and solve problems involving perimeter, area and volume
25	N3	use the concepts of prime numbers, factors, multiples, common factors, common multiples, highest common factor, lowest common multiple and prime factorisation
26	P4	generate theoretical sample spaces for single and combined events with equally likely, mutually exclusive outcomes and use these to calculate theoretical probabilities
27	N3	use the concepts of prime numbers, factors, multiples, common factors, common multiples, highest common factor, lowest common multiple and prime factorisation
28	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
29	S1	describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
30	R2	use scale factors, scale diagrams and maps