Quest

End of year assessment content domain coverage

Year 8 Maths (non-calculator)

Assessment overview

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

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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	N10	compare 2 quantities using percentages
4	R4	use ratio notation, including reduction to simplest form
5	R3	express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1
6	R2	use scale factors, scale diagrams and maps
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	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
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

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Question breakdown

Q	Content domain reference	
16	A4	simplify and manipulate algebraic expressions to maintain equivalence
17	S1	describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
18	N10	define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal
19	G8	identify properties of, and describe the results of, translations, rotations and reflections applied to given figures
20	A15	recognise arithmetic sequences and find the nth term
21	N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
22	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
23	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
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	S1	describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
26	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
27	A1	use and interpret algebraic notation
28	G2	calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
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	G1	derive and apply formulae to calculate and solve problems involving perimeter, area and volume