Quest

End of year assessment content domain coverage

Year 7 Maths (non-calculator)

Assessment overview

Content domain	Total
Number	**14**
Algebra	**7**
Ratio, proportion and rates of change	**2**
Geometry and measures	**3**
Probability	**2**
Statistics	**2**

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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	A2	substitute numerical values into formulae and expressions, including scientific formulae
3	S1	describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
4	N8	interpret and compare numbers in standard form $A \times 10^n$ $1 \leq A < 10$, where n is a positive integer or 0
5	P2	understand that the probabilities of all possible outcomes sum to 1
6	P1	record, describe and analyse the frequency of outcomes of simple probability experiments
7	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
8	R3	express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1
9	N3	use the concepts of prime numbers, factors, multiples, common factors, common multiples, highest common factor, lowest common multiple and prime factorisation
10	N10	define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal
11	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
12	N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
13	G1	derive and apply formulae to calculate and solve problems involving perimeter, area and volume
14	N10	interpret percentages multiplicatively, express 1 quantity as a percentage of another
15	A1	use and interpret algebraic notation

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Question breakdown

Q	Content domain reference	
16	A1	use and interpret algebraic notation
17	A4	simplify and manipulate algebraic expressions to maintain equivalence
18	G7	derive and illustrate properties of triangles, quadrilaterals, circles, and other plane figures using appropriate language and technologies
19	N2	order positive and negative integers, decimals and fractions; use the number line as a model for ordering of the real numbers; use the symbols =, ≠, <, >, ≤, ≥
20	N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
21	S2	construct and interpret appropriate tables, charts, and diagrams, including for categorical data and for ungrouped and grouped numerical data
22	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
23	A7	use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
24	N2	order positive and negative integers, decimals and fractions; use the number line as a model for ordering of the real numbers; use the symbols =, ≠, <, >, ≤, ≥
25	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
26	A4	simplify and manipulate algebraic expressions to maintain equivalence
27	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
28	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
29	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
30	A4	simplify and manipulate algebraic expressions to maintain equivalence