Quest

Spring term assessment content domain coverage

Year 8 Maths (non-calculator)

Assessment overview

Content domain	Total
Number	**7**
Algebra	**7**
Ratio, proportion and rates of change	**4**
Geometry and measures	**3**
Probability	**2**
Statistics	**2**

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Question breakdown

Q	Reference	
1	A14	generate terms of a sequence from either a term-to-term or a position-to-term rule
2	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers
3	G2	calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
4	R8	solve problems involving percentage change, including: percentage increase, decrease and original value problems
5	A4	simplify and manipulate algebraic expressions to maintain equivalence
6	R4	use ratio notation, including reduction to simplest form
7	N3	use the concepts of prime numbers, factors, multiples, common factors, common multiples, highest common factor, lowest common multiple and prime factorisation
8	A7	use algebraic methods to solve linear equations in 1 variable (including all forms that require rearrangement)
9	N11	interpret fractions and percentages as operators
10	G10	apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles
11	A5	understand and use standard mathematical formulae; rearrange formulae to change the subject
12	S2	construct and interpret appropriate tables, charts, and diagrams, including for categorical data and for ungrouped and grouped numerical data
13	N4	use the 4 operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers

Q	Reference	
14	A1	use and interpret algebraic notation
15	S1	describe, interpret and compare observed distributions of a single variable through appropriate measures of central tendency and spread
16	N8	interpret and compare numbers in standard form $A \times 10^n$ $1 \leq A < 10$, where n is a positive integer or 0
17	A16	recognise geometric sequences and appreciate other sequences that arise
18	N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
19	P3	enumerate sets and unions/intersections of sets systematically, using tables, grids and Venn diagrams
20	P1	record, describe and analyse the frequency of outcomes of simple probability experiments
21	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
22	N13	round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures]
23	R1	change freely between related standard units [for example: time, length, area, volume/capacity, mass]
24	A15	recognise arithmetic sequences and find the nth term
25	G2	calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes