Quest

Spring term assessment content domain coverage

Year 8 Maths (non-calculator)

Assessment overview

Content domain	Total
Number	12
Algebra	9
Ratio, proportion and rates of change	4
Geometry and measures	4
Statistics	3

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Question breakdown

Q	Reference	
1	8N4	use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative
2	8A4	simplify and manipulate algebraic expressions to maintain equivalence by: collecting like terms; multiplying a single term over a bracket; taking out common factors; expanding products of two or more binomials
3	7G10	apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles
4	8N8	interpret and compare numbers in standard form A x 10^n, 1≤A<10, where n is a positive or negative integer or zero
5	8N10	define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100%
6	8N10	define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100%
7	8A4	simplify and manipulate algebraic expressions to maintain equivalence by: collecting like terms; multiplying a single term over a bracket; taking out common factors; expanding products of two or more binomials
8	8S1	describe, interpret and compare observed distributions of a single variable through: appropriate graphical representation involving discrete, continuous and grouped data; and appropriate measures of central tendency (mean, mode, median) and spread (range, consideration of outliers)
9	8A2	substitute numerical values into formulae and expressions, including scientific formulae
	8A7	use algebraic methods to solve linear equations in one variable (including all forms that require rearrangement)
10	8S2	construct and interpret appropriate tables, charts, and diagrams, including frequency tables, bar charts, pie charts, and pictograms for categorical data, and vertical line (or bar) charts for ungrouped and grouped numerical data
11	8R4	use ratio notation, including reduction to simplest form
12	7N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
13	8N10	define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100%
14	8R5	divide a given quantity into two parts in a given part:part or part:whole ratio; express the division of a quantity into two parts as a ratio

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15	8N4	use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative
16	8G5	describe, sketch and draw using conventional terms and notations: points, lines, parallel lines, perpendicular lines, right angles, regular polygons, and other polygons that are reflectively and rotationally symmetric
17	8A8	work with coordinates in all four quadrants
18	8N8	interpret and compare numbers in standard form A x 10^n, 1≤A<10, where n is a positive or negative integer or zero
19	8A7	use algebraic methods to solve linear equations in one variable (including all forms that require rearrangement)
20	8N4	use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative
	8A2	substitute numerical values into formulae and expressions, including scientific formulae
21	8N4	use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative
	8A4	simplify and manipulate algebraic expressions to maintain equivalence by: collecting like terms; multiplying a single term over a bracket; taking out common factors; expanding products of two or more binomials
22	8R5	divide a given quantity into two parts in a given part:part or part:whole ratio; express the division of a quantity into two parts as a ratio
23	8N4	use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative
24	8A4	simplify and manipulate algebraic expressions to maintain equivalence by: collecting like terms; multiplying a single term over a bracket; taking out common factors; expanding products of two or more binomials
25	7N4	use the four operations, including formal written methods, applied to integers, decimals, proper and improper fractions, and mixed numbers, all both positive and negative
	7N6	recognise and use relationships between operations including inverse operations
	7N13	round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures]
26	8G1	derive and apply formulae to calculate and solve problems involving: perimeter and area of triangles, parallelograms, trapezia, volume of cuboids (including cubes) and other prisms (including cylinders)

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Q	Reference	
27	8S1	describe, interpret and compare observed distributions of a single variable through: appropriate graphical representation involving discrete, continuous and grouped data; and appropriate measures of central tendency (mean, mode, median) and spread (range, consideration of outliers)
28	8A4	simplify and manipulate algebraic expressions to maintain equivalence by: collecting like terms; multiplying a single term over a bracket; taking out common factors; expanding products of two or more binomials
29	8G8	identify properties of, and describe the results of, translations, rotations and reflections applied to given figures
30	8R9	solve problems involving direct and inverse proportion, including graphical and algebraic representations