Quest

Spring term assessment content domain coverage

Year 7 Maths (non-calculator)

Assessment overview

Content domain	Total
Number	13
Algebra	7
Ratio, proportion and rates of change	4
Geometry and measures	5
Statistics	3

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Question breakdown

Q	Reference	
1	7N10	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%
2	7A2	substitute numerical values into formulae and expressions, including scientific formulae
3	7A14	generate terms of a sequence from either a term-to-term or a position-to-term rule
4	7G10	apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles
5	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
6	7N1	understand and use place value for decimals, measures and integers of any size
7	7G2	calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
8	7A1	use and interpret algebraic notation, including: ab in place of a×b; 3y in place of y+y+y and 3×y; a^2 in place of a×a; a^3 in place of a×a×a; a^2b in place of a×a×b; a/b in place of a÷b; coefficients written as fractions rather than as decimals; brackets
	7A4	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
9	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
10	7A14	generate terms of a sequence from either a term-to-term or a position-to-term rule
	7A15	recognise arithmetic sequences and find the nth term
11	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
12	7N1	understand and use place value for decimals, measures and integers of any size
13	7S1	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)
14	7S1	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)

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15	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
	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	7R1	change freely between related standard units [for example time, length, area, volume/capacity, mass]
17	7A2	substitute numerical values into formulae and expressions, including scientific formulae
18	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
	7R1	change freely between related standard units [for example time, length, area, volume/capacity, mass]
19	7G2	calculate and solve problems involving: perimeters of 2-D shapes (including circles), areas of circles and composite shapes
20	7N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
21	7A1	use and interpret algebraic notation, including: ab in place of a×b; 3y in place of y+y+y and 3×y; a^2 in place of a×a; a^3 in place of a×a×a; a^2b in place of a×a×b; a/b in place of a÷b; coefficients written as fractions rather than as decimals; brackets
22	7R8	solve problems involving percentage change, including: percentage increase, decrease and original value problems and simple interest in financial mathematics
23	7N2	order positive and negative integers, decimals and fractions; use the number line as a model for ordering of the real numbers; use the symbols =, ≠, <, >, ≤, ≥
24	7N12	use standard units of mass, length, time, money and other measures, including with decimal quantities
25	7R8	solve problems involving percentage change, including: percentage increase, decrease and original value problems and simple interest in financial mathematics
26	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]
27	7N5	use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals
28	7A4	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
	7G1	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	
29	7S1	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)
30	7G1	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)