

Test Overview: Year 6+

STUDENT PROFILE

Name: _____ Class: _____ Year: _____

Test Question	AC Strand/Sub-strand/Content description/Code	Relates to Units
Q1	<p>Number and Algebra <i>Number and place value</i> Investigate index notation and represent whole numbers as products of powers of prime numbers (ACMNA149) AC</p> <p>Investigate and use square roots of perfect square numbers (ACMNA150) AC</p>	Unit 1 Powers and Square Numbers
Q2	<p>Number and Algebra <i>Number and place value</i> Investigate index notation and represent whole numbers as products of powers of prime numbers (ACMNA149) AC</p> <p>Investigate and use square roots of perfect square numbers (ACMNA150) AC</p>	Unit 1 Powers and Square Numbers
Q3	<p>Number and Algebra <i>Number and place value</i> Apply the associative, commutative and distributive laws to aid mental and written computation (ACMNA151) AC</p>	Unit 2 Place Value and Laws of Computation
Q4	<p>Number and Algebra <i>Number and place value</i> Apply the associative, commutative and distributive laws to aid mental and written computation (ACMNA151) AC</p>	Unit 2 Place Value and Laws of Computation
Q5	<p>Measurement and Geometry <i>Using units of measurement</i> Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving (ACMMG159) AC</p> <p>Calculate volumes of rectangular prisms (ACMMG160) AC</p>	Unit 3 Measurement (Area and Volume)
Q6	<p>Measurement and Geometry <i>Using units of measurement</i> Establish the formulas for areas of rectangles, triangles and parallelograms and use these in problem solving (ACMMG159) AC</p> <p>Calculate volumes of rectangular prisms (ACMMG160) AC</p>	Unit 3 Measurement (Area and Volume)
Q7	<p>Number and Algebra <i>Real numbers</i> Compare fractions using equivalence. Locate and represent positive and negative fractions and mixed numbers on a number line (ACMNA152) AC</p> <p>Solve problems involving addition and subtraction of fractions, including those with unrelated denominators (ACMNA153) AC</p> <p>Multiply and divide fractions and decimals using efficient written strategies and digital technologies (ACMNA154) AC</p> <p>Express one quantity as a fraction of another, with and without the use of digital technologies (ACMNA155) AC</p>	Unit 4 Fractions

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Q8	<p>Number and Algebra <i>Real numbers</i> Compare fractions using equivalence. Locate and represent positive and negative fractions and mixed numbers on a number line (ACMNA152) AC</p> <p>Solve problems involving addition and subtraction of fractions, including those with unrelated denominators (ACMNA153) AC</p> <p>Multiply and divide fractions and decimals using efficient written strategies and digital technologies (ACMNA154) AC</p> <p>Express one quantity as a fraction of another, with and without the use of digital technologies (ACMNA155) AC</p>	Unit 4 Fractions
Q9	<p>Number and Algebra <i>Real numbers</i> Connect fractions, decimals and percentages and carry out simple conversions (ACMNA157) AC</p>	Unit 5 Decimals, Fractions and Percentages
Q10	<p>Number and Algebra <i>Real numbers</i> Connect fractions, decimals and percentages and carry out simple conversions (ACMNA157) AC</p>	Unit 5 Decimals, Fractions and Percentages
Q11	<p>Number and Algebra <i>Patterns and algebra</i> Introduce the concept of variables as a way of representing numbers using letters (ACMNA175) AC</p> <p>Create algebraic expressions and evaluate them by substituting a given value for each variable (ACMNA176) AC</p> <p>Extend and apply the laws and properties of arithmetic to algebraic terms and expressions (ACMNA177) AC</p>	Unit 6 Patterns and Algebra
Q12	<p>Number and Algebra <i>Patterns and algebra</i> Introduce the concept of variables as a way of representing numbers using letters (ACMNA175) AC</p> <p>Create algebraic expressions and evaluate them by substituting a given value for each variable (ACMNA176) AC</p> <p>Extend and apply the laws and properties of arithmetic to algebraic terms and expressions (ACMNA177) AC</p>	Unit 6 Patterns and Algebra
Q13	<p>Statistics and Probability <i>Data representation and interpretation</i> Identify and investigate issues involving numerical data collected from primary and secondary sources (ACMSP169) AC</p> <p>Construct and compare a range of data displays including stem-and-leaf plots and dot plots (ACMSP170) AC</p>	Unit 7 Data Representation
Q14	<p>Statistics and Probability <i>Data representation and interpretation</i> Identify and investigate issues involving numerical data collected from primary and secondary sources (ACMSP169) AC</p> <p>Construct and compare a range of data displays including stem-and-leaf plots and dot plots (ACMSP170) AC</p>	Unit 7 Data Representation

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Q15	<p>Number and Algebra <i>Real numbers</i> Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies (ACMNA158) AC</p> <p>Recognise and solve problems involving simple ratios (ACMNA173) AC</p>	Unit 8 Percentages
Q16	<p>Number and Algebra <i>Real numbers</i> Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies (ACMNA158) AC</p> <p>Recognise and solve problems involving simple ratios (ACMNA173) AC</p>	Unit 8 Percentages
Q17	<p>Measurement and Geometry <i>Shape</i> Draw different views of prisms and solids formed from combinations of prisms (ACMMG161) AC</p>	Unit 9 Prisms and Solids
Q18	<p>Measurement and Geometry <i>Shape</i> Draw different views of prisms and solids formed from combinations of prisms (ACMMG161) AC</p>	Unit 9 Prisms and Solids
Q19	<p>Measurement and Geometry <i>Location and transformation</i> Describe translations, reflections in an axis, and rotations of multiples of 90° on the Cartesian plane using coordinates. Identify line and rotational symmetries (ACMMG181) AC</p>	Unit 10 Transformation and Symmetry
Q20	<p>Measurement and Geometry <i>Location and transformation</i> Describe translations, reflections in an axis, and rotations of multiples of 90° on the Cartesian plane using coordinates. Identify line and rotational symmetries (ACMMG181) AC</p>	Unit 10 Transformation and Symmetry
Q21	<p>Number and Algebra <i>Linear and non-linear relationships</i> Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point (ACMNA178) AC</p> <p>Solve simple linear equations (ACMNA179) AC</p>	Unit 11 Linear and Non-Linear Relationships
Q22	<p>Number and Algebra <i>Linear and non-linear relationships</i> Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point (ACMNA178) AC</p> <p>Solve simple linear equations (ACMNA179) AC</p>	Unit 11 Linear and Non-Linear Relationships
Q23	<p>Statistics and Probability <i>Chance</i> Construct sample spaces for single-step experiments with equally likely outcomes (ACMSP167) AC</p> <p>Assign probabilities to the outcomes of events and determine probabilities for events (ACMSP168) AC</p>	Unit 12 Chance

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Q24	<p>Statistics and Probability <i>Chance</i> Construct sample spaces for single-step experiments with equally likely outcomes (ACMSP167) AC</p> <p>Assign probabilities to the outcomes of events and determine probabilities for events (ACMSP168) AC</p>	Unit 12 Chance
Q25	<p>Measurement and Geometry <i>Geometric reasoning</i> Identify corresponding, alternate and co-interior angles when two straight lines are crossed by a transversal (ACMMG163) AC</p> <p>Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning (ACMMG164) AC</p>	Unit 13 Angles and Parallel Lines
Q26	<p>Measurement and Geometry <i>Geometric reasoning</i> Identify corresponding, alternate and co-interior angles when two straight lines are crossed by a transversal (ACMMG163) AC</p> <p>Investigate conditions for two lines to be parallel and solve simple numerical problems using reasoning (ACMMG164) AC</p>	Unit 13 Angles and Parallel Lines
Q27	<p>Measurement and Geometry <i>Geometric reasoning</i> Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral (ACMMG166) AC</p> <p>Classify triangles according to their side and angle properties and describe quadrilaterals (ACMMG165) AC</p>	Unit 14 Triangles and Angles
Q28	<p>Measurement and Geometry <i>Geometric reasoning</i> Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral (ACMMG166) AC</p> <p>Classify triangles according to their side and angle properties and describe quadrilaterals (ACMMG165) AC</p>	Unit 14 Triangles and Angles
Q29	<p>Statistics and Probability <i>Data representation and interpretation</i> Calculate mean, median, mode and range for sets of data. Interpret these statistics in the context of data (ACMSP171) AC</p> <p>Describe and interpret data displays using median, mean and range (ACMSP172) AC</p>	Unit 15 Mean, Median and Mode
Q30	<p>Statistics and Probability <i>Data representation and interpretation</i> Calculate mean, median, mode and range for sets of data. Interpret these statistics in the context of data (ACMSP171) AC</p> <p>Describe and interpret data displays using median, mean and range (ACMSP172) AC</p>	Unit 15 Mean, Median and Mode