



GRADE 9 TERM 4 MATHEMATICS SCOPE

PAPER 1 (75 marks)

Number Systems

- Classify numbers as natural, whole, integer, rational, irrational and non real, even HCF and LCM
- Financial Mathematics, simple, compound growth, interest, profit and loss, exchange rate, increase/decrease money in a given percentage
- Distance, speed and time

Algebra and exponents

- Simplify exponents and solve exponential equations
- Remove brackets, factorise and simplify algebraic fractions
- Solve algebraic equations

Number patterns

- Determine next term
- Determine and apply the general term

Graphs

- Interpret weather, distance-time graphs, identify the changes
- Sketch a straight graph using dual intercept or point intercept
- Determine gradient and equation of a given graph

PAPER 2 (75 marks)

Pythagoras Theorem

- Determine missing side when given two sides in a right angled triangle

Geometry of straight lines and 2D shapes (solve for the given variable)

- Angles on a straight line and parallel lines
- angles in a triangle
- Exterior angle in a triangle
- Properties of quadrilaterals (especially parallelograms)
- Congruency and similarity

Transformational Geometry

- Describe and identify translation, reflection and enlargement

Measurement

- Area and perimeter of 2D shapes including composite shapes
- Volume and surface area of 3 D shapes

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Michael Seilmaier



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