

Assessment Notification



Course	Year 8 Mathematics
Task	Task 1
Date and time	Week 6, Friday March 10
Time allowed	45 minutes
Weighting	15%
Nature of task	In class test (examination style), approved calculators allowed

Topics and outcomes	Algebra Techniques MA3-8NA Analyses and completes number patterns MA4-8NA Generalises number properties to operate with algebraic expressions Reasoning in Geometry and Angle Relationships MA3-16MG Measures and constructs angles and applies angle relationships to find unknown angles MA4-17MG Classifies, describes and uses the properties of triangles and quadrilaterals MA4-18MG Identifies and uses angle relationships, including those related to transversals on sets of parallel lines
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Course text Signpost 8

Topics content and text references

Chapter 5 Algebra Techniques

Students are expected to:

- Use pronumerals to represent given practical situations and pronumerals
- Add and subtract algebraic terms appropriately
- Multiply and divide of algebraic expressions
- Substitute into algebraic expressions and equations; including practical applications
- Find the Highest Common Factors (HCF) of given number/algebra expressions
- Factorise algebraic expressions using the HCF.

Chapter 15 Reasoning in Geometry

Students are expected to:

- Measure and construct angles
- Classify angles as acute, right-angled, obtuse and reflex
- Correctly name angles using the labels on a diagram
- Identify and use the properties of straight angles, vertically opposite, angles, angles at a point.
- Identify and use the properties of the angle sum of a triangle and the angle sum of a quadrilateral
- Identify and use the properties of scalene, isosceles and equilateral triangles
- Recognise when two lines are cut by a third line, called a transversal, 3 types of angles are formed – corresponding, alternate and co-interior
- Identify and use the properties of corresponding, alternate and co-interior angles when the pair of lines are parallel to determine the size of an angle from a given diagram
- Provide geometric reasoning to determine the size of an angle from any given diagram using the above properties.

Preparation

- Write summary notes of the topics listed above
- Study the outcomes listed above using the text references and other resources provided
- It is your responsibility to bring all required equipment to the assessment

EQUIPMENT:

Protractor

Sharp HB pencil (marks lost for thick and messy lines)

NOTE 2B or other B pencils are art pencils NOT Mathematics pencils

Ruler or straight edge