­­­­

Year 7 Mathematics

Assessment Task 3 – 2024

|  |  |
| --- | --- |
| **TOPIC**: Angle Relationships, Length and Area | **MARKS:** 60 |
| **SUBMISSION REQUIREMENTS:** In-class examination  Term 3 Week 8  **7MATB** – Tuesday – 10th September, Period 3  **7MATC** – Wednesday – 11th September, Period 3  **7MATG** – Tuesday –10th September, Period 2  **7MATM** – Tuesday – 10th September, Period 2  **7MATW** – Tuesday – 10th September, Period 3  **7MATY** – Wednesday – 11th September, Period 1 | **WEIGHTING:**  30% |
| **OUTCOMES TO BE ASSESSED:**  **MAO-WM-01:** Develops understanding and fluency in mathematics through exploring and connecting mathematical concepts, choosing and applying mathematical techniques to solve problems, and communicating their thinking and reasoning coherently and clearly  **MA4-ANG-C-01 -** Applies angle relationships to solve problems, including those related to transversals on sets of parallel lines.  **MA4-LEN-C-01 -** Applies knowledge of the perimeter of plane shapes and the circumference of circles to solve problems.  **MA4-ARE-C-O1 -** Applies knowledge of area and composite area involving triangles, quadrilaterals and circles to solve problems. | |
| **DIRECTIONAL VERBS:**   * Develop - To create or enhance mathematical concepts or skills through practice and understanding. * Apply – To use, utilize and employ mathematical concepts or formulas to solve a specific problem or situation. | |
| **TASK DESCRIPTION & ASSESSMENT CRITERIA:**  This examination consists of:   * 12 multiple-choice and short response questions on Angle Relationships totalling 17 marks of the total marks * 8 multiple-choice and short response questions on Length totalling 15 marks of the total marks * 12 multiple-choice and short response questions on Area totalling 19 marks of the total marks   The examination will be for **one lesson**.   * **Students are allowed to use a calculator.** Students are encouraged to ensure that they have their own working calculator. * **Students will have to opportunity to revision during class time. If you are absent on this day, it is your responsibility to seek assistance from your teacher outside of class time.** * **Students are also encouraged to complete their own revision.** * **No other notes or books can be used during the exam.** * You will be marked on your ability to answer the questions correctly, showing all necessary working out.   Equipment required:  **Ruler - Pen - Pencil – Eraser - CALCULATOR**  **Students are encouraged to review the following concepts:**   |  |  |  | | --- | --- | --- | | **Angle Relationships** | **Length** | **Area** | | * Classifying angles * Naming/labelling angles * Complementary angles * Supplementary angles * Adjacent angles * Angles at a point * Vertically opposite angles * Perpendicular lines * Parallel lines * Corresponding angles * Alternate angles * Co-interior angles * Mixed angles on parallel lines * Testing is lines are parallel | * Converting between metric units of length * Perimeter of rectilinear figures * Parts of a circle * Pi and the circumference of a circle * Finding the arc length and   perimeter of sectors   * Finding the perimeter of composite figures * Solve practical problems relating to perimeter | * Convert between metric units of area * Use formulas to find the areas of: * rectangles, squares, triangles, parallelograms, trapeziums, rhombuses and kites. * Use the formula to find the area of circles * Find the area of sectors * Solve a variety of practical problems relating to area | | |