

Year 8 Mathematics

Assessment Task 1 – 2025

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| **TOPICS**: Percentages and Algebra | | **MARKS:** 38 |
| |  |  | | --- | --- | | **SUBMISSION REQUIREMENTS:** **Term 1 Week 8**  **8MATB** – Thursday – 20th March, Period 2  **8MATC** – Friday – 21st March, Period 2  **8MATG** – Friday – 21st March, Period 4  **8MATM** – Friday – 21st March, Period 4  **8MATW** – Friday – 21st March, Period 5  **8MATY** – Friday – 21st March, Period 5 | **TOPICS**  Percentages 16 marks  Algebra 22 marks  **TOTAL 38 marks** | | | |
| **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-FRC-C-01 –** Represents and operates with fractions, decimals and percentages to solve problems  **MA4-ALG-C-01 –** Generalises number properties to operate with algebraic expressions including expansion and factorisation | | |
| **DIRECTIONAL VERBS:**   * Develop - To create or enhance mathematical concepts or skills through practice and understanding. * Generalise – To extend a pattern, rule, or concept beyond specific cases to apply it more broadly. | | |
| **TASK DESCRIPTION:**  Test consisting of:  Part A – Percentages (10 Questions totalling 16 marks) Part B – Algebra (13 Questions totalling 22 marks)  The test will be completed in class on the assigned date set and will be collected at end of the lesson.  **Students may bring a calculator and a single A4 summary sheet (written on both sides) to use during the task.**  Equipment required: **Calculator - Ruler - Pen - Pencil - Eraser** | |
| **ASSESSMENT CRITERIA:**   * You will be marked on your ability to answer the questions correctly. * Show relevant mathematical working, reasoning and/or calculations. * You are encouraged to revise the following concepts learnt in class.  |  |  | | --- | --- | | **Percentages** | **Algebra** | | * Percentage of a Quantity * Percentage Increase and Decrease * Applying percentage to solve a variety of problems * Use of Unitary Method to solve percentage problems | * Algebraic Terminologies * Writing Algebraic expression from worded problems and vice versa * Substitutions * Adding and subtracting “Like Terms” * Multiplying and Dividing Algebraic Expressions * Expanding and Simplifying Algebraic Expressions * Factorising Algebraic Expressions | | |
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