

Year 8 Mathematics

Assessment Task 1 – 2025

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| **TOPICS**: Percentages and Algebra |  **MARKS:** 38 |
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| **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 marksAlgebra 22 marks**TOTAL 38 marks** |

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| **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.
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| **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.

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| **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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