YEAR 12 MATHEMATICS STANDARD 1

Trial HSC Examination 2020

Due Date: Wednesday 12th of August 2020 9:10am
Assessment Name: Trial HSC Examination

Mark: x/80
Weighting: 40 %

SYLLABUS OUTCOMES TO BE ASSESSED:

MS1-12-1 Uses algebraic and graphical techniques to evaluate and construct arguments in a range of familiar and unfamiliar contexts

MS1-12-2 Analyses representations of data in order to make predictions and draw conclusions

MS1-12-3 Interprets the results of measurements and calculations and makes judgements about their reasonableness

MS1-12-4 Analyses simple two-dimensional and three-dimensional models to solve practical problems

MS1-12-5 Makes informed decisions about financial situations likely to be encountered post-school

MS1-12-6 Represents the relationships between changing quantities in algebraic and graphical forms

MS2-12-7 Solves problems requiring statistical processes

MS1-12-8 Applies network techniques to solve network problems

MS1-12-9 Chooses and uses appropriate technology effectively and recognises appropriate times for such use

MS1-12-10 Uses mathematical argument and reasoning to evaluate conclusions, communicating a position clearly to others

Note: As up to 30% of the assessment mark submitted to the Board of Studies may be based on the Preliminary Mathematics Standard 1 course. Any preliminary outcomes can be assessed.


DIRECTIVES TO BE ASSESSED:

Analyse: To identify causes, key factors, relationships and possible results.

Answer: To provide a written reply or response to a question.

Choose: To select items or answer from a collection of values.

Construct: To draw a shape, line or angle accurately using a compass, ruler or geometrical instruments.

Evaluate: To make a judgement based on criteria; determine the value of.

Interpret: To draw meaning from a mathematical situation.

Justify: To provide evidence to support your solution.

Makes: To produce; cause to exist or happen; bring about

Predict: To make an educated guess about future events.

Solve: To find the answer to or explanation for effectively dealing with a problem.

Use: To manipulate something for a particular purpose to solve mathematical problems.
TASK DESCRIPTION:
You will complete a 2 hour examination, with an extra 10 minutes reading time, covering all coursework studied in the Mathematics Standard 1 course listed below. Note Preliminary outcomes can be tested as a part of this examination. The examination will involve 10 multiple choice questions and 29 extended response questions.

A board approved formulae sheet will be provided with your examination paper.

Section 1 – 10 Multiple choice questions are worth 10 marks in total. (1 mark each)
Section 2 – 24 extended response questions are worth 70 marks in total. (70 Marks)

The topics assessed are:
HSC Standard 1 Course

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Recommended equipment:
- NESA approved scientific calculator
- Pens, ruler, pencils

ASSESSMENT CRITERIA – STUDENT CHECKLIST:
Have you
- Revised the following topics by completing Exercises, chapter reviews cumulative chapter reviews and ensuring you have referenced syllabus documents:
  MS-A3 Types of Relationships
  MS-M3 Right-angled Triangles
  MS-M4 Rates
  MS-M5 Scale Drawings
  MS-F2 Investment
  MS-F3 Depreciation and Loans
  MS-S3 Further Statistical Analysis
  MS-N1 Networks and Paths
  MS-A1 Formulae and Equations
  MS-A2 Linear Relationships
  MS-M1 Applications of Measurement
  MS-M2 Working with Time
  MS-F1 Money Matters
  MS-S1 Data Analysis
  MS-S2 Relative Frequency and Probability
- Completed generated HSC Online Multiple choice questions on the NESA website.
  Refer to: https://quiz.nesa.nsw.edu.au/