



NSW Education Standards Authority

2022 HIGHER SCHOOL CERTIFICATE EXAMINATION

Mathematics Extension 1

General**Instructions**

- * Reading time -- 10 minutes
- * Working time -- 2 hours
- * Write using black pen
- * Calculators approved by NESA may be used
- * A reference sheet is provided at the back of this paper
- * For questions in Section II, show relevant mathematical reasoning and/or calculations
- * Write your Centre Number and Student Number on the Question 12 Writing Booklet attached

Total marks:
70**Section I -- 10 marks** (pages 2-6)

- * Attempt Questions 1-10
- * Allow about 15 minutes for this section

Section II -- 60 marks (pages 2-6)

- * Attempt Questions 11-14
- * Allow about 1 hour and 45 minutes for this section

Section I

10 marks

Attempt Questions 1--10

Allow about 15 minutes for this section

Use the multiple-choice answer sheet for Questions 1--10.

****1**** Given that $a = 1$ and $b = 2$, evaluate $a + b$.

A. 1

B. 2

C. 3

D. 4

Given that

$$a = 1$$

and