

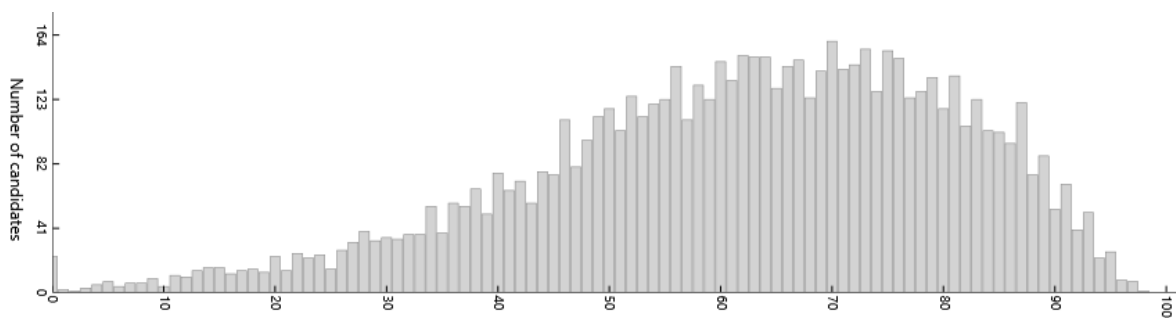


## Summary report of the 2022 ATAR course examination report: Mathematics Applications

Year	Number who sat	Number of absentees
2022	7124	209
2021	7581	190
2020	7611	192
2019	8047	163

The number of candidates sitting and the number attempting each section of the examination can differ as a result of non-attempts across sections of the examination.

### Examination score distribution–Written



### Summary

The examination consisted of two sections: a Calculator-free section and a Calculator-assumed section.

Attempted by 7102 candidates                      Mean 61.80%                      Max 98.03%                      Min 0.00%

Section means were:

Section One: Calculator-free	Mean 61.28%		
Attempted by 7100 candidates	Mean 21.45(/35)	Max 35.00	Min 0.00
Section Two: Calculator-assumed	Mean 62.07%		
Attempted by 7074 candidates	Mean 40.35(/65)	Max 64.33	Min 0.00

### General comments

The paper had a good balance of simple and complex questions. The length of the paper seemed appropriate, with over 90% of candidates attempting the final two questions. Candidates demonstrated a sound understanding of terms and definitions and provided appropriate explanations when required. Basic arithmetic calculations were a concern for many candidates.

### Advice for candidates

- Ensure you include arrows on directed networks.
- Ensure your handwriting is legible, especially when asked to explain or justify your answers.
- Show working to allow follow through marks to be awarded.
- Read the question carefully and highlight key words/phrases.
- Practise questions in a variety of contexts and take care when reading a scale on a graph.

### *Advice for teachers*

- Ensure students understand the meaning of the phrase 'in the context of the question'.
- Stress the importance of using brackets.
- Remind students to read questions carefully and underline key words.
- Provide opportunities for students to practise unfamiliar questions in different contexts.

### ***Comments on specific sections and questions***

#### **Section One: Calculator-free (54 Marks)**

Most candidates performed well in this section. However, basic arithmetic skills were lacking with many candidates. In Question 6, some candidates were completing multiple steps of working in one matrix which made it difficult for markers to award marks appropriately.

#### **Section Two: Calculator-assumed (97 Marks)**

This section was completed well overall by most candidates. Many candidates found the finance questions challenging and Question 15 proved to be a discriminating question.