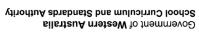
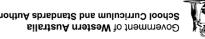


%99.0 niM

%07.39 xsM

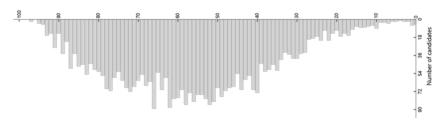




Mathematics Methods Summary report of the 2019 ATAR course examination:

| Number of absentees | Number who sat | Year |
|---------------------|---------------------------------|------|
| 09 | 0904 | 2019 |
| 75 | ۲۱ <i>۲۲</i> | 2018 |
| 45 | 4328 | 2017 |
| 87 | 0 † 2 † 0 | 2016 |

Examination score distribution-Written



Summary

led to a mean lower than that of previous years. sections were similar. The number of discriminating questions in this examination may have Calculator-assumed. Most candidates attempted all questions. The means for the two The examination consisted of two sections, Section One: Calculator-free and Section Two:

Mean 56.76%

| 00.0 niM | 75.23 xsM | (59/)38.95 (ns9M | Attempted by 4042 candidates |
|----------|-----------|------------------|---------------------------------|
| | | Mean 56.69% | Section Two: Calculator-assumed |
| 00.0 niM | Max 35.00 | (35/)39.91 ns9M | Attempted by 4043 candidates |
| | | Mean 57.00% | Section One: Calculator-free |
| | | | Section means were: |
| | | | |

General comments

- Setting out of working was good and in logical steps.
- Numerous solutions were just calculations with no reference to what had been
- When asked to sketch a graph, candidate responses often lacked detail. calculated.
- Questions which required a brief description were not answered well. Candidates
- seemed to miss the point of what was being asked.
- Basic number skills were lacking in numerous scripts. Examples included:
- addition of fractions

Attempted by 4045 candidates

- conversion between units
- rounding of decimals
- calculations involving powers.
- When using CAS calculators, candidates must query unrealistic results to check for

2019 ATAR course examination report: Mathematics Methods 2020/17898 Candidates are encouraged to show details of the method they use, as use of CAS calculators does not necessarily demonstrate candidates' understanding of the concepts involved.

Advice for candidates

- Communicate your solutions, with an explanation, rather than just calculations.
- Questions that ask for interpretation or explanation need to be answered in sufficient detail. Understanding what a calculation means is just as important as the calculation itself.
- · Take care to identify key points and ensure scales are included when sketching of graphs.

Advice for teachers

- Teachers should make interpretation of solutions an area of focus. Candidates were proficient at performing calculations, but performed poorly when asked to interpret their results.
- Provide emphasis on the distribution of sample proportions, differentiating composite functions and non-standard continuous probability distribution.
- · Practise graph sketching.

Comments on specific sections and questions Section One: Calculator-free (52 Marks)

Candidates performed well in this section with the basic calculations, but struggled with more complex concepts. Question 2 part (b), which required the differentiation of a composite function, was not well attempted.

Section Two: Calculator-assumed (99 Marks)

Candidates performed well with the sections covering probability distributions and standard calculus. The distribution of sample proportions was not well understood by candidates. Graph sketching was also not done well, despite candidates having the CAS calculator for assistance. Candidates struggled with interpretation and explanation of solutions. Some candidates also failed to take care reading questions.