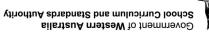


f£.f niM

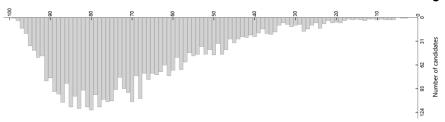
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## Mathematics Methods Summary report of the 2017 ATAR course examination:

87	0†9†	2016
42	4328	2017
Number of absentees	Number who sat	Year

#### Examination score distribution – Written



# Summary

assumed section. Candidates performed to a similar standard in both the Calculator-free and The examination consisted of two sections: a Calculator-free section and a Calculator-%EE.E niM %T0.89 xsM Mean 69.37% Attempted by 4328 candidates

Mean 69.86%

#### Calculator-assumed sections.

Attempted by 4328 candidates Section Two: Calculator-assumed Attempted by 4328 candidates Section One: Calculator-free Section means were:

46.43 xsM (36))29.44 ns9M Wean 69.11% Mean 24.45(/35) Max 35.00

the examination's accessibility to most candidates. Although candidates generally performed
The examination was well attempted. The relatively few questions left unattempted indicated
วายเลเส รายเมา

Advice for candidates also a lack of precision in drawing graphs for probability distributions and curve sketching.

calculations well, many had difficulty explaining how results were determined. There was

- When asked to show or demonstrate a result, ensure that all steps and explanations are
- Identify the conditions that are needed for a particular probability distribution to be
- appropriate.
- Give clear explanations and take note of the number of marks when determining the
- Remember that questions worth more than two marks require justification for full marks detail required when answering the question.
- Advice for teachers

to be awarded.

# Students answered well when they were asked to perform calculations relating to sample

indicating that they need more practice. proportions and probability distributions but generally struggled to interpret the results,

attempted. Standard questions involving calculus, logarithms and the exponential function were well

2017 ATAR course examination report: Mathematics Methods

2018/7012

 Students did not perform well when they needed to use the Fundamental Theorem of Calculus.

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

In Section One, candidates demonstrated a sound understanding of the log laws and standard calculus questions. They handled the probability questions well. However, candidates struggled with demonstration and explanation in questions relating to margin of error, the Fundamental Theorem of Calculus and area under the curve.

### Section Two: Calculator-assumed (99 Marks)

In Section Two, candidates performed well in questions relating to probability distributions provided they recognised the appropriate distribution. They evaluated and calculated results correctly but struggled with the interpretation and explanation of some concepts. Once again, the application of calculus to rectilinear motion was handled well.