EXAM PAPER

General Mathematics Unit 1 & 2 — Practice Exam 1

PREVIEW
This file has the first 15 of the 30 questions in this paper. The rest is locked: it comes with a PrepNest plan, or with the paper itself for VCE.

Reading time: 15 minutes (no writing)
Writing time: 45 minutes
Total time: 60 minutes

SECTIONS IN THIS PAPER

- General Mathematics — 45 min

INSTRUCTIONS

You are not permitted to write during reading time — you may only read the paper and plan your approach. Answer every question you can. Write your working in the space provided for long-answer questions. Marking guidance and full explanations are provided in the separate answer key.

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General Mathematics

45 minutes

1. What does the median of a data set represent?

A. The most frequent value

B. The average of all values

C. The middle value when the data is ordered

D. The range of the values

2. A data set has Q1 = 10 and Q3 = 18. What is the interquartile range (IQR)?

A. 8

B. 18

C. 28

D. 10

3. $1000 is invested at 5% simple interest per year. How much interest is earned after 3 years?

A. $50

B. $150

C. $1050

D. $1150

4. What does "principal" mean in the context of a loan or investment?

A. The interest earned

B. The final balance

C. The original amount borrowed or invested

D. The interest rate

5. What is the mean of: 4, 7, 9, 10, 5, 12?

A. 6.83

B. 12

C. 7.83

D. 8.83

6. What is the mean of: 6, 8, 10, 12, 4, 14?

A. 14

B. 9

C. 10

D. 8

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7. What is the range of: 3, 7, 4, 9, 2, 15?

A. 13

B. 15

C. 2

D. 16

8. What is the range of: 10, 4, 12, 6, 8?

A. 12

B. 4

C. 10

D. 8

9. A data set has Q1 = 5 and Q3 = 20. What is the interquartile range?

A. 5

B. 21

C. 15

D. 20

10. A data set has Q1 = 10 and Q3 = 30. What is the interquartile range?

A. 31

B. 20

C. 30

D. 10

11. A data set has Q1 = 8 and Q3 = 24. What is the interquartile range?

A. 16

B. 24

C. 8

D. 25

12. Which measure of centre is most affected by an extreme outlier in a data set?

A. The mean

B. The median

C. The mode

D. The range

13. In a box plot, what does the line inside the box represent?

A. The mode

B. The range

C. The mean

D. The median

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14. A data set is described as positively skewed when:

A. It has no outliers

B. It has a long tail extending to the right

C. It has a long tail extending to the left

D. It is perfectly symmetric

15. What does the standard deviation of a data set measure?

A. The middle value of the data

B. The spread of data around the mean

C. The most frequent value

D. The total of all values

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16.

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26.

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30.

15 questions locked, up to question 30.

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PREVIEW

That’s the end of the preview

You’ve seen the first 15 of the 30 questions in General Mathematics Unit 1 & 2 — Practice Exam 1. The full paper is worth 30 marks.

STILL TO COME	QUESTIONS	MARKS
General Mathematics	15	15

The full paper comes with

- Every question, printed exactly like the ones in this preview
- The complete answer key, with the working behind every mark
- A topic report after marking, showing what to practice next

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