MapleMind

File 2
Practice exam

Manitoba | Grade 12

Grade 12 Applied Mathematics Achievement Test

Practice set 1 Student booklet

In this practice exam

1	**Student booklet**	27 questions	3 hours

Before you start

- You have 3 hours to finish.
- You may take 30 more minutes.
- You may use a calculator.
- Use the reference pages whenever you need them.
- In the written questions, show your work.

Your initials or class number
Not your student number



Finished? Ask an adult to photograph your pages.
MapleMind marks them and shows what to practise next.

Sample

Student booklet

Questions 1 to 27

1 A farm records crop yield for different amounts of irrigation water. The table shows the measurements.

Use technology to graph the data and fit a logarithmic regression model, in the form $y = a + b \log x$. Round a and b to the nearest tenth.

1. State what x and y represent, including their units, and give the regression model.

2. Describe whether the model is increasing or decreasing and whether its graph is concave up or concave down.

3. Use the model to estimate the irrigation amount for a yield of 30 tonnes per hectare. Show your work.

Farm irrigation and crop yield

Water (mm)	Yield (tonnes/ha)
1	18
2	21.6
5	26.4
10	30
20	33.6

Show your work

Sample

Answer key

Practice set 1. Add up the marks on the score sheet, page 14.

A question with several parts earns its mark only when every part is right.

Student booklet

113 marks

No.	Answer	Mark	What it tests	Page
1	[illegible]	7	Relations and Functions	2
2	[illegible]	1	Relations and Functions	3
3	[illegible]	1	Relations and Functions	4
4	[illegible]	4	Relations and Functions	5

Sample

Question 4: worked answer and marks

4 marks

Question 6: worked answer and marks

4 marks

Sample

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File 1
Start here

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The guide for students and adults

For the student

What to expect	Page 2
Your skills	Page 3
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Your progress	Page 7
Exam day	Page 8

For the adult

How to print it, run it and mark it	Page 9
Answer keys Keep these files away from the student.	File 3

In your download

File 1	Start here (this guide)
File 2	Practice exam, Set 1
File 3	Answer key, Set 1
File 4	Reference sheet
Study plan	To your exam date, when you gave one
Code list	Who has each copy, for a class



Start with page 2, together if you can.
Your study plan is on page 5.

Sample