MapleMind

File 2
Practice exam

Manitoba | Grade 12

Grade 12 Essential Mathematics Achievement Test

Practice set 1 Student booklet

In this practice exam

1	**Student booklet**	43 questions	2 hours

Before you start

- You have 2 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 43

1 A bakery needs a vehicle for five years and expects to drive 28,000 km each year. It wants to own the vehicle at the end of five years. The table shows the total costs and end-of-term outcome for each option.

Which option best fits the bakery's needs?

Vehicle options over five years

Option	Total cost	At end
Buy	$27,450	Own vehicle
Lease	$24,300	No vehicle
Lease to buy	$30,650	Own vehicle

- ◯ **A** Buy the vehicle; it costs less than leasing to buy and leaves the bakery with a vehicle.
- ◯ **B** Lease the vehicle; its mileage limit best suits the bakery's annual driving.
- ◯ **C** Lease the vehicle; it has the lowest cost and leaves the bakery with a vehicle.
- ◯ **D** Lease to buy the vehicle; it costs less than buying and leaves the bakery with a vehicle.

Sample

2 A community garden budgets for a vehicle used to commute to its garden sites. The table gives its costs, including all applicable taxes.

1. Calculate the annual fuel cost and show your work.

2. Calculate the annual scheduled maintenance cost and repair reserve, showing your work.

3. Calculate the average annual depreciation and select the commuting insurance premium.

4. Calculate the total annual cost, including licensing, and state your answer in dollars to the nearest cent.

Vehicle budget data

Budget item	Amount or rate
Annual distance	14,400 km
Fuel consumption	9.2 L/100 km
Fuel price	$1.72/L
Scheduled service	$96 every 7,200 km
Other scheduled service	$138/year
Repair reserve	$68/month
Initial vehicle value	$31,500
Value after 5 years	$18,000
Pleasure insurance	$1,265/year
Commuting insurance	$1,585/year
Business insurance	$1,940/year
Licensing	$135/year

Show your work

Sample

Answer key

Practice set 1. Add up the marks on the score sheet, page 23.

Student booklet

172 marks

No.	Answer	Mark	What it tests	Page
1	[redacted]	1	Vehicle Finance	2
2	[redacted]	8	Vehicle Finance	3
3	[redacted]	4	Vehicle Finance	5
4	[redacted]	4	Vehicle Finance	6
5	[redacted]	1	Vehicle Finance	7
6	[redacted]	7	Vehicle Finance	8
7	[redacted]	4	Vehicle Finance	9
8	[redacted]	1	Vehicle Finance	10
9	[redacted]	8	Vehicle Finance	11
10	[redacted]	4	Vehicle Finance	12

Sample

No.	Answer	Mark	What it tests	Page
40	[redacted]	3	Probability	42
41	[redacted]	1	Probability	42
42	[redacted]	4	Probability	43
43	[redacted]	4	Probability	44

Question 2: worked answer and marks

8 marks

[redacted]

Sample

MapleMind

File 1
Start here

Manitoba | Grade 12

Grade 12 Essential Mathematics Achievement Test

The guide for students and adults

For the student

What to expect	Page 2
Your skills	Page 3
Your study plan	Page 5
How to study	Page 6
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

Sample