MapleMind

File 2
Practice exam

Alberta | Grade 12

Mathematics 30–2 Diploma Examination

Practice set 1 Student booklet

In this practice exam · 3 hours in all

1	**Machine Scored**	32 questions
2	**Written Response**	2 questions

Before you start

- You have 3 hours to finish.
- You may take up to 3 more hours.
- You may use an approved 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

Part 1

Machine Scored

Questions 1 to 32

1 A game starts with 32 counters. Players take turns removing 1, 2, 3, 4, or 5 counters. The player who removes the last counter wins. Both players know the rules and try to win.

How many counters should the first player remove on the first turn to guarantee a win?

Sample

Part 2

Written Response

Questions 33 to 34

33 A grocery store runs a prize draw. The odds in favour of winning a grocery voucher are 4 : 9.

1. Explain what these odds mean and calculate the probability of winning.

2. Give the odds against winning and show your reasoning.

Show your work

Sample

Answer key

Practice set 1. Add up the marks on the score sheet, page 4.

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

Part 1 · Machine Scored

1 mark each · 32 marks

No.	Answer	Mark	What it tests	Page
1	[illegible]	1	Logical Reasoning	2
2	[illegible]	1	Logical Reasoning	3
3	[illegible]	1	Logical Reasoning	4
4	[illegible]	1	Logical Reasoning	5
5	[illegible]	1	Logical Reasoning	6
6	[illegible]	1	Logical Reasoning	7
7	[illegible]	1	Probability	7
8	[illegible]	1	Probability	8
9	[illegible]	1	Probability	8
10	[illegible]	1	Probability	9
11	[illegible]	1	Probability	10
12	[illegible]	1	Probability	11
13	[illegible]	1	Probability	11
14	[illegible]	1	Probability	12
15	[illegible]	1	Probability	12
16	[illegible]	1	Probability	13
17	[illegible]	1	Relations and Functions	14

Sample

Part 2 · Written Response

10 marks

No.	Answer	Mark	What it tests	Page
33	[illegible]	5	Probability	24
34	[illegible]	5	Relations and Functions	25

Question 34: worked answer and marks

5 marks

[illegible]

Sample

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File 1
Start here

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Mathematics 30–2 Diploma Examination

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



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

Sample