MapleMind

File 2
Practice exam

Alberta | Grade 12

Physics 30 Diploma Examination

Practice set 1 Student booklet

In this practice exam · 3 hours in all

1	**Machine-scored questions**	50 questions on 7 texts

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.

Your initials or class number
Not your student number

_____

Sample



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

Part 1

Machine-scored questions

Questions 1 to 50

1 Two identical garden carts move along a straight path in opposite directions. The table gives each cart's mass and velocity. Which statement correctly compares their momenta?

Garden carts

Cart	Mass (kg)	Velocity
A	2.4	3.0 m/s east
B	2.4	3.0 m/s west

- ◯ **A** Their momenta are equal because momentum depends on mass and speed, not direction.
- ◯ **B** Their momenta have opposite directions because momentum is kinetic energy times velocity.
- ◯ **C** Their momenta have equal magnitudes and the same direction because momentum is a scalar.
- ◯ **D** Their momenta have equal magnitudes and opposite directions because momentum is mass times velocity.

Sample

Answer key

Practice set 1. Add up the marks on the score sheet, page 5.

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

Part 1 · Machine-scored questions

1 mark each · 50 marks

No.	Answer	Mark	What it tests	Page
1	[illegible]	1	Momentum and Impulse (GO A)	2
2	[illegible]	1	Momentum and Impulse (GO A)	3
3	[illegible]	1	Momentum and Impulse (GO A)	4
4	[illegible]	1	Momentum and Impulse (GO A)	4
5	[illegible]	1	Momentum and Impulse (GO A)	5
6	[illegible]	1	Momentum and Impulse (GO A)	5
7	[illegible]	1	Momentum and Impulse (GO A)	6
8	[illegible]	1	Momentum and Impulse (GO A)	6
9	[illegible]	1	Forces and Fields (GO B)	7
10	[illegible]	1	Forces and Fields (GO B)	9
11	[illegible]	1	Forces and Fields (GO B)	9
12	[illegible]	1	Forces and Fields (GO B)	10

Sample

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File 1
Start here

Alberta · Grade 12

Physics 30 Diploma Examination

The guide for students and adults

For the student

What to expect	Page 2
Your skills	Page 3
Your study plan	Page 8
How to study	Page 9
Your progress	Page 10
Exam day	Page 11

For the adult

How to print it, run it and mark it	Page 12
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 8.

Sample