Alberta | Grade 12

Chemistry 30 Diploma Examination

Practice set 1 Student booklet

In this practice exam · 3 hours in all

1	**Machine Scored**	60 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.

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 60

1 Use the thermochemical equation in the table to complete the sentence.

Thermochemical equation

Equation	ΔH (kJ)
$N_2 + 3H_2 \rightarrow 2NH_3$	−92.4

Fill each blank with one of the choices in the box.

If the equation is multiplied by 2, the new enthalpy change is _____ kJ.

92.4	−184.8	184.8	−92.4

2 Assume all heat released by the reaction is absorbed by the water. Use the table to complete the statements.

Library demonstration data

Measurement	Value
Water mass	86.4 g
Water specific heat	4.19 J/(g·°C)
Initial temperature	18.6 °C
Final temperature	24.9 °C
Reacted amount	0.0180 mol

Circle one choice in each set of brackets.

The water absorbs (2.28 / −2.28 / 0.228) kJ of heat. The reaction's molar enthalpy change is (−0.1267 / −126.7 / 126.7) kJ/mol, so the reaction is (endothermic / exothermic).

Sample

Answer key

Practice set 1. Add up the marks on the score sheet, page 8.

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

Part 1 · Machine Scored

1 mark each · 60 marks

No.	Answer	Mark	What it tests	Page
1	[illegible]	1	Thermochemical Changes (GO A1, A2)	2
2	[illegible]	1	Thermochemical Changes (GO A1, A2)	2
3	[illegible]	1	Thermochemical Changes (GO A1, A2)	3
4	[illegible]	1	Thermochemical Changes (GO A1, A2)	4
5	[illegible]	1	Thermochemical Changes (GO A1, A2)	5
6	[illegible]	1	Thermochemical Changes (GO A1, A2)	6
7	[illegible]	1	Thermochemical Changes (GO A1, A2)	6
8	[illegible]	1	Thermochemical Changes (GO A1, A2)	7
9		1	Thermochemical Changes (GO A1, A2)	8

Sample

MapleMind

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
Your study plan	Page 7
How to study	Page 8
Your progress	Page 9
Exam day	Page 10

For the adult

How to print it, run it and mark it	Page 11
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 7.

Sample