pei | Grade 10

School-based Assessment in Grade 10 Mathematics

Practice set 1 Student booklet

In this practice exam · 2 h 30 min in all

1	**Selected response**	28 questions
2	**Constructed response**	8 questions

Before you start

- You have 2 h 30 min to finish.
- You may use an approved calculator.
- Mark each multiple-choice answer on the answer sheet at the back.
- 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

Selected response

Questions 1 to 28

1 A square weather station platform has the area shown in the table. What is its exact side length in simplest radical form?

Platform area

Measure	Value
Area	147 m^2

A $49\sqrt{3}$ m

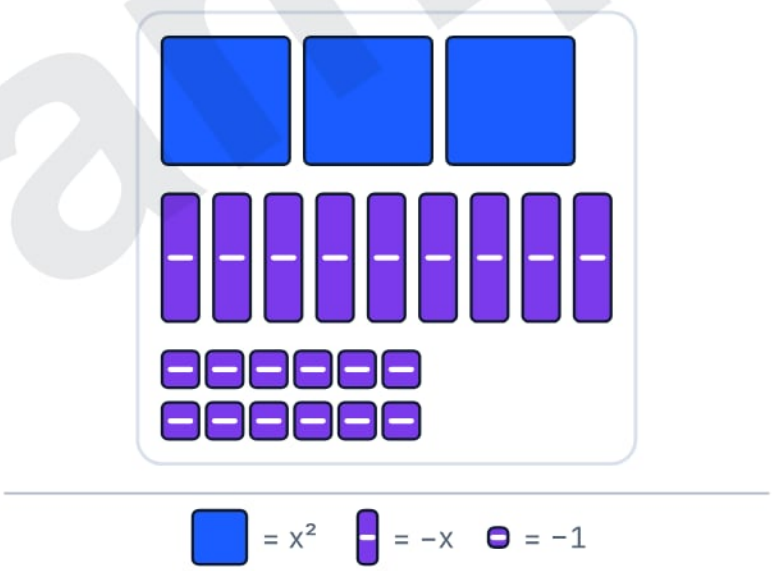
B $7\sqrt{21}$ m

C $7\sqrt{3}$ m

D $3\sqrt{7}$ m

2 The algebra tiles show a polynomial expression.

Which option gives its complete factorization?



A $3(x - 4)(x + 1)$

B $3(x - 2)(x + 2)$

C $3(x - 4)(x - 1)$

D $3(x + 4)(x - 1)$

Sample

Part 2

Constructed response

Questions 29 to 36

29 Three parts for a robotics project have lengths represented by $\sqrt{12}$, $\sqrt{17}$, and $\sqrt{22}$ units. Show how you estimate each value and place the three values on a number line.

1. Estimate each value to the nearest tenth.

2. Write the values in order from least to greatest.

Show your work

Sample

For the adult

Answer key

File 3
Answer key

Practice set 1. Add up the marks on the score sheet, page 6.

Part 1 · Selected response

1 mark each · 28 marks

No.	Answer	Mark	What it tests	Page
1	[illegible]	1	Algebra and number	2
2	[illegible]	1	Algebra and number	2
3	[illegible]	1	Algebra and number	3
4	[illegible]	1	Algebra and number	3
5	[illegible]	1	Algebra and number	3
6	[illegible]	1	Algebra and number	4
7	[illegible]	1	Algebra and number	4
8	[illegible]	1	Measurement	5
9	[illegible]	1	Measurement	5
10	[illegible]	1	Measurement	6
11	[illegible]	1	Measurement	7
12	[illegible]	1	Measurement	8
13	[illegible]	1	Measurement	9
14	[illegible]	1	Relations and functions	10
15	[illegible]	1	Relations and functions	11
16	[illegible]	1	Relations and functions	12
17	[illegible]	1	Relations and functions	13
18	[illegible]	1	Relations and functions	14

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 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