

Part A: Instructions Pages

Copyright 2019, the Crown in Right of Alberta, as represented by the Minister of Education, Alberta Education, Provincial Assessment Sector, 44 Capital Boulevard, 10044 108 Street NW, Edmonton, Alberta T5J 5E6, and its licensors. All rights reserved.

Duplication of this test in any manner or its use for purposes other than those authorized and scheduled by Alberta Education is strictly prohibited.

Grade 9 Provincial Achievement Test

Mathematics

Part A

Description

There are 20 numerical-response questions on this test.

Time: 30 minutes. You have up to 60 minutes to complete this test should you need it.

Instructions

- Use **only** an **HB** pencil to mark your answer.
- You may use manipulatives; however, use of a calculator is **not** permitted.
- Try to answer every question.
- If you change an answer, **erase** your first mark or marks **completely**.
- When you have completed the test, please answer the **survey question**, which appears after the last test question.

You may write in this booklet if you find it helpful. Make sure that your answers to the numerical-response questions are placed on the answer sheet.

2019

Numerical Response

- Record your answer on the answer sheet provided by writing it in the boxes.
- **Enter your answer, with one digit per box, beginning in the left-hand box. Each of the following, if needed, goes in its own box: a decimal point (.), a fraction bar (/), and a negative sign (–). Do not include a plus sign (+) if the answer is positive. Leave any unused boxes blank.**
- You may fill in the bubbles below the boxes for each of your answers as you do the test; however, you may also fill in the bubbles **after** you have completed the test and your teacher has collected your test booklet.

Example 1

Answer: -4

**Record -4 on the
answer sheet —**

rd -4 on the
er sheet →

-	4		
---	---	--	--

Fill in the
corresponding
circles

●	①	①	
○	○	○	○
①	①	①	①
②	②	②	②
③	③	③	③
④	●	④	④
⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨

Example 2

Answer: 9.2

Record 9.2 on the answer sheet

→

9	.	2	
---	---	---	--

Fill in the corresponding circles

0	0	0	0
1	1	1	1
2	2	●	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
●	9	9	9

Example 3

Answer: -0.3

Record -0.3 on the answer sheet

→

-	0	.	3
---	---	---	---

Fill in the corresponding circles

0	●	●	0
1	1	1	1
2	2	2	2
3	3	3	●
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Example 4

Answer:

9

 (Record the **numerator** in the **first** column.)

1	0
---	---

 (Record the **fraction bar** in the **second** column.)
(Record the **denominator** in the **third** and **fourth** columns.)

Record 9/10 on the answer sheet

→

9	/	1	0
---	---	---	---

Fill in the corresponding circles

0	0	0	0
1	1	●	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
●	9	9	9

Example 5

Answer:

-	3
---	---

 (Record the **negative sign** in the **first** column and the **numerator** in the **second** column.)

5

 (Record the **fraction bar** in the **third** column.)
(Record the **denominator** in the **fourth** column.)

Record -3/5 on the answer sheet

→

-	3	/	5
---	---	---	---

Fill in the corresponding circles

0	0	0	0
1	1	1	1
2	2	2	2
3	●	3	3
4	4	4	4
5	5	5	●
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Example 6

Answer:

(Record the **whole number** in the **first** column.)

$\boxed{8} \boxed{1} \boxed{2}$ (Record the **numerator** in the **second** column.)
 (Record the **fraction bar** in the **third** column.)
 (Record the **denominator** in the **fourth** column.)

Record 8 1/2 on the answer sheet

Fill in the corresponding circles

8	1	/	2
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0

Example 7

$$78.5 - 24.2 = 5_ .3$$

In the equation above, which digit could be placed in the blank space to make the equation correct?

Answer: 5 .3

(Record **only the missing digit** on the answer sheet.)

Answer: 54.3

Record 4 on the answer sheet

Fill in the corresponding circles

4			
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0

Example 8

$$786.5 - 244.2 = 5_ _ .3$$

In the equation above, which two digits could be placed in the blank spaces to make the equation correct?

Answer: 5 .3

(Record **only the two missing digits, in order**, on the answer sheet.)

Answer: 54 2.3

Record 42 on the answer sheet

Fill in the corresponding circles

4	2		
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0

T

1

Appendix 4

Part B: Instructions Pages

Copyright 2019, the Crown in Right of Alberta, as represented by the Minister of Education, Alberta Education, Provincial Assessment Sector, 44 Capital Boulevard, 10044 108 Street NW, Edmonton, Alberta T5J 5E6, and its licensors. All rights reserved.

Duplication of this test in any manner or its use for purposes other than those authorized and scheduled by Alberta Education is strictly prohibited.

Grade 9 Provincial Achievement Test

Mathematics Part B

Description

There are 32 multiple-choice questions and 8 numerical-response questions on this test.

Time: 80 minutes. You have up to 160 minutes to complete this test should you need it.

You may write in this booklet if you find it helpful. Make sure that your answers to the multiple-choice and numerical-response questions are placed on the answer sheet.

2019

Instructions

- Use **only** an **HB** pencil to mark your answer.
- You may use a ruler, manipulatives, and a calculator; however, a graphing calculator is **not** permitted. Use of a protractor is also **not** permitted.
- Read each question carefully and choose the **correct** or **best** answer.
- Try to answer every question.
- If you change an answer, **erase** your first mark **completely**.
- Now read the detailed instructions for answering multiple-choice and numerical-response questions.
- When you have completed the test, please answer the **survey question**, which appears after the last test question.

Multiple Choice

- Each question has four possible answers from which you are to choose the **correct** or **best** answer.
- Locate the question number on the separate answer sheet provided and fill in the circle that corresponds to your choice.

Example

If $x = 3$, what is the value of $x + 8$?

- A. 10
- B. 11
- C. 12
- D. 13

Answer: 11

Answer Sheet

(A) (B) (C) (D)

Numerical Response

- Record your answer on the answer sheet provided by writing it in the boxes and then by filling in the corresponding circles.
- Enter your answer, one digit per box, beginning in the left-hand box. A decimal point, if needed, goes in its own box. Leave any unused boxes blank.**

Calculation Question and Solution

Example 1

What is $5 - 1$?

Answer: 4

Record 4 on the answer sheet →

4			
---	--	--	--

Fill in the corresponding circles

	0	0	0	0
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4
	5	5	5	5
	6	6	6	6
	7	7	7	7
	8	8	8	8
	9	9	9	9

Example 2

If $x = 4.6$, then what does $2x$ equal?

Answer: 9.2

Record 9.2 on the answer sheet →

9	.	2	
---	---	---	--

Fill in the corresponding circles

	0	0	0	0
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4
	5	5	5	5
	6	6	6	6
	7	7	7	7
	8	8	8	8
	9	9	9	9

Name

Apply Label With Student's Name

To be completed by/for ALL students.

LAST NAME (please print)

FIRST NAME

To be completed ONLY for students without labels.

ALBERTA STUDENT NUMBER

SCHOOL NAME

SCHOOL CODE

BIRTH DATE (Year/Month/Day)

ACCOMMODATIONS USED
(mark all applicable)

- 1 ☐ 6 ☐
2 ☐ 7 ☐
3 ☐ 8 ☐
4 ☐ 9 ☐
5 ☐ 10 ☐

INITIALS OF
EXAM SUPERVISOR
(if any used)

COMPLETED THE COURSE
IN A YEAR OTHER THAN
THE YEAR OF TESTING

HOME EDUCATED FOR
THIS SUBJECT

☐

☐

SEE ACCOMMODATIONS IN THE
GENERAL INFORMATION BULLETIN
FOR MORE INFORMATION.

GRADE 9
PROVINCIAL ACHIEVEMENT TEST

MATHEMATICS
Part B

IMPORTANT INSTRUCTIONS FOR
MARKING ANSWERS

1. USE HB PENCIL ONLY.
2. MAKE HEAVY BLACK MARKS TO FILL CIRCLE COMPLETELY.
3. TO CHANGE AN ANSWER, ERASE THE OLD MARK CLEANLY BEFORE FILLING IN THE NEW CIRCLE.
4. DO NOT MAKE ANY STRAY MARKS ON THIS PAPER.

EXAMPLE

What is
5.4 – 5.1?

RIGHT
0 . 3

Answer:
0.3

EXAMPLE

Alberta is a

- 1 ☐ (A) ☒ (B) ☐ (C) ☐ (D) **RIGHT**
2 ☐ (A) ☐ (B) ☒ (C) ☐ (D) **WRONG**
3 ☐ (A) ☐ (B) ☒ (C) ☐ (D) **WRONG**
4 ☐ (A) ☐ (B) ☒ (C) ☐ (D) **WRONG**

Alberta

PAT9110001M.03

Fold and tear along perforation.

GRADE 9 MATHEMATICS Part B

MULTIPLE CHOICE

1	(A) (B) (C) (D)	12	(A) (B) (C) (D)	23	(A) (B) (C) (D)
2	(A) (B) (C) (D)	13	(A) (B) (C) (D)	24	(A) (B) (C) (D)
3	(A) (B) (C) (D)	14	(A) (B) (C) (D)	25	(A) (B) (C) (D)
4	(A) (B) (C) (D)	15	(A) (B) (C) (D)	26	(A) (B) (C) (D)
5	(A) (B) (C) (D)	16	(A) (B) (C) (D)	27	(A) (B) (C) (D)
6	(A) (B) (C) (D)	17	(A) (B) (C) (D)	28	(A) (B) (C) (D)
7	(A) (B) (C) (D)	18	(A) (B) (C) (D)	29	(A) (B) (C) (D)
8	(A) (B) (C) (D)	19	(A) (B) (C) (D)	30	(A) (B) (C) (D)
9	(A) (B) (C) (D)	20	(A) (B) (C) (D)	31	(A) (B) (C) (D)
10	(A) (B) (C) (D)	21	(A) (B) (C) (D)	32	(A) (B) (C) (D)
11	(A) (B) (C) (D)	22	(A) (B) (C) (D)		

NUMERICAL RESPONSE

1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)		(.) (0) (1) (2) (3) (4) (5) (6) (7) (8) (9)

Day

☐ January
☐ May
☐ June

	0	1	2	3	4	5	6	7	8	9
--	---	---	---	---	---	---	---	---	---	---

Time Taken:

A	B	C	D	E	F
---	---	---	---	---	---

Fold and tear along perforation.