

Grade 9 Achievement Test

Mathematics

Multiple Choice and Numerical Response

Description

You have 75 minutes to complete this test; however, you may take an additional 30 minutes to complete the test.

- This test consists of 40 multiple-choice questions and 10 numerical-response questions, each worth one mark.

A formula sheet is included in this booklet.

Instructions

- Use **only** an **HB** pencil to mark your answer.
- You may use a protractor, a ruler, manipulatives, and a calculator; however, a graphing calculator is **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 turn this page and read the detailed instructions for answering multiple-choice and numerical-response questions.

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.

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

Ⓐ ● Ⓒ Ⓓ

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 $6 - 2$?

(Record your answer in the numerical-response section on the answer sheet.)

Answer: 4

Record 4 on the answer sheet →

	4			
	•	•		
	0	0	0	0
	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

Fill in the corresponding circle

Example 2

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

(Record your answer in the numerical-response section on the answer sheet.)

Answer: 9.2

Record 9.2 on the answer sheet

→

9	.	2	
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



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

Selection Question and Solution

Example 3

The following pictures are of 2-D shapes.

			
1	2	3	4

Match each shape, as numbered above, with its name, as given below.

_____ _____ _____ _____
Triangle Pentagon Circle Quadrilateral

(Record all **four digits** of your answer in the numerical-response section on the answer sheet.)

Answer: 2431

Record 2431 on the answer sheet

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2	4	3	1
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Fill in the corresponding circles

0	0	0	0
1	1	1	●
●	2	2	2
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