

Practice Test

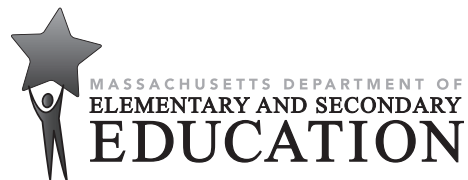
Mathematics

GRADE 8

Student Name

School Name

District Name



This is a practice test. Your responses to practice test questions must be recorded on your Practice Test Answer Document.

Mark only one answer for each multiple-choice question. If you are not sure of the answer, choose the answer you think is best.

HOW TO ANSWER OPEN-RESPONSE QUESTIONS

- Read all parts of each question carefully.
- Make each response as clear, complete, and accurate as you can.
- Check your answers.

Mathematics

DIRECTIONS

This practice test contains one multiple-choice question, one short-answer question, and one open-response question. Mark your answers to these questions in the spaces provided on pages 4 and 5 of your Practice Test Answer Document.

1 Which of the following inequalities is true?

A. $\sqrt{3} > \pi$

B. $\sqrt{9} > \pi$

C. $\sqrt{5} > 2$

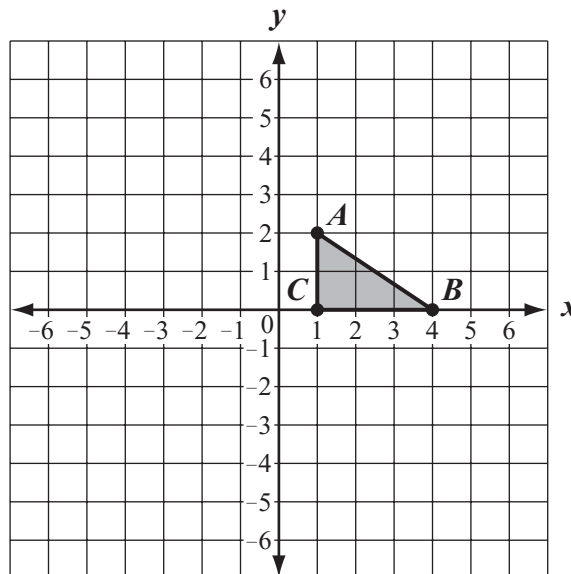
D. $\sqrt{6} > 3$

Question 2 is a short-answer question. Write your answer to this question in the box provided on page 4 of your Practice Test Answer Document. Do not write your answer on any other page. You may do your figuring on any other page.



You may use a calculator to answer this question.

2 David drew $\triangle ABC$ on a coordinate plane, as shown below.



David reflected $\triangle ABC$ over the x -axis. What are the coordinates of the image of point A ?

Question 3 is an open-response question.

- **BE SURE TO ANSWER AND LABEL ALL PARTS OF THE QUESTION.**
- **Show all your work (diagrams, tables, or computations) in your Practice Test Answer Document.**
- **If you do the work in your head, explain in writing how you did the work.**

Write your answer to question 3 in the space provided on page 5 of your Practice Test Answer Document.

- 3** Lisa bought a silver chain. She wants to buy glass beads to put on the chain. The equation below can be used to determine y , Lisa's total cost, in dollars, to buy a silver chain and x glass beads.

$$y = 2x + 10$$

- a. In your Practice Test Answer Document, copy the table below and complete it using the equation. Show or explain how you got each of your answers.

**Total Cost of
Silver Chain and Beads**

Number of Beads (x)	Total Cost (y)
0	\$10
5	\$20
10	
15	
⋮	⋮
25	
⋮	⋮
40	

- b. What does the 2 in the equation represent? Explain your reasoning.
- c. What does the 10 in the equation represent? Explain your reasoning.

MASSACHUSETTS COMPREHENSIVE ASSESSMENT SYSTEM

Grade 8 Mathematics

Practice Test Answer Document

<p>School Name: _____</p> <p>District Name: _____</p> <p>Last Name of Student: _____</p> <p>First Name of Student: _____</p>	<p style="text-align: center;">Marking Instructions</p> <ul style="list-style-type: none">• Use a No. 2 pencil only.• Do not use ink, ballpoint, or felt-tip pens.• Make solid marks that fill the circles completely.• Erase cleanly any marks you wish to change.• Do not make any stray marks on this form.• Do not fold, tear, or damage this form.
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MATHEMATICS

1. Ⓐ Ⓑ Ⓒ Ⓓ

2.

DO NOT WRITE
IN SHADED AREA

Please go to the next page to answer the next question for this test. ➡

