

Practice Test

Mathematics

GRADE 7

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

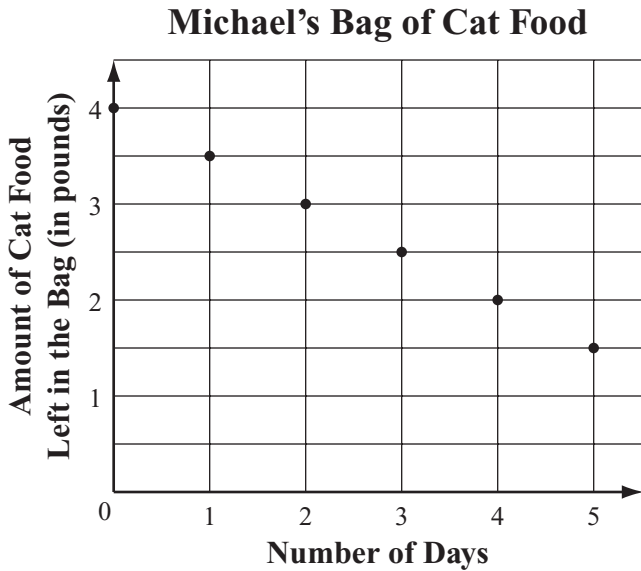
- Read all parts of each question carefully.
- Make each response as clear, complete, and accurate as you can.
- Check your answers.

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 5 and 6 of your Practice Test Answer Document.

- 1 Michael bought a 4-pound bag of cat food. He fed his cat the same amount of food from the bag each day, as shown in the graph below.

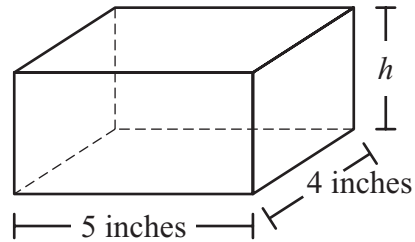


What amount of food from the bag did Michael feed his cat each day?

- A. $\frac{1}{4}$ pound
- B. $\frac{1}{2}$ pound
- C. 1 pound
- D. 2 pounds

Question 2 is a short-answer question. Write your answer to this question in the box provided on page 5 of your Practice Test Answer Document. Do not write your answer on any other page. You may do your figuring on any other page.

- 2 A rectangular prism and some of its dimensions are shown below.



The volume of the rectangular prism is 40 cubic inches. What is h , the height, in inches, of the rectangular prism?

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 6 of your Practice Test Answer Document.

3 Madison plans to sew one button and one ribbon on a clown costume. She has one each of the following colors of buttons in her pocket:

- black
- green
- red
- white

All the buttons are the same size and shape.

Madison will select one button from her pocket without looking.

a. What is the probability that she will select a red button? Show or explain how you got your answer.

Madison has one each of the following colors of ribbon in a bag:

- black
- white
- yellow

All the ribbons are the same size and material.

She will select one button from her pocket and one ribbon from her bag without looking.

b. Make an organized list or a tree diagram showing all the possible color combinations that Madison could select.

c. What is the probability that Madison will select a black button and a black ribbon? Show or explain how you got your answer.

d. What is the probability that Madison will select a button and a ribbon that are **different** colors from each other? Show or explain how you got your answer.

MASSACHUSETTS COMPREHENSIVE ASSESSMENT SYSTEM

Grade 7 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.• Make no stray marks on this form.• Do not fold, tear, or mutilate this form.
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MATHEMATICS

1. (A) (B) (C) (D)

2.

DO NOT WRITE
IN SHADED AREA

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

