



# ***New York State Testing Program***

## **Mathematics Test Book 2**

Grade **6**

**May 5–7, 2010**

Name \_\_\_\_\_



Developed and published by CTB/McGraw-Hill LLC, a subsidiary of The McGraw-Hill Companies, Inc., 20 Ryan Ranch Road, Monterey, California 93940-5703. Copyright © 2010 by the New York State Education Department. All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of the New York State Education Department.

## TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Be sure to read carefully all the directions in the test book.
- Read each question carefully and think about the answer before writing your response.
- Be sure to show your work when asked. You may receive partial credit if you have shown your work.



This picture means that you will use your ruler.



**26**

What is the value of  $n$  in the equation below?

$$66 + n = 226$$

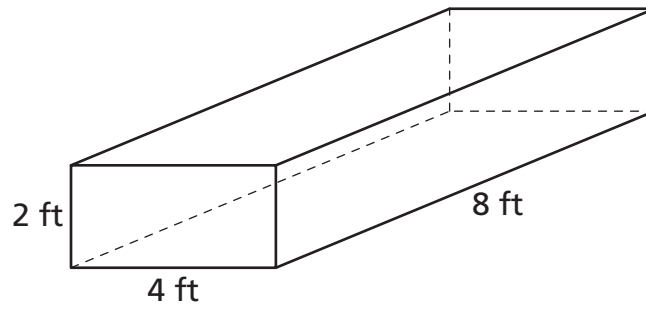
**Show your work.**

**Answer** \_\_\_\_\_

**Go On**

27

The diagram below shows a box in a warehouse. The box is in the shape of a rectangular prism.



[not drawn to scale]

What is the **volume**, in cubic feet, of the box?

$$V = lwh$$

**Show your work.**

**Answer** \_\_\_\_\_ cubic feet

**28**

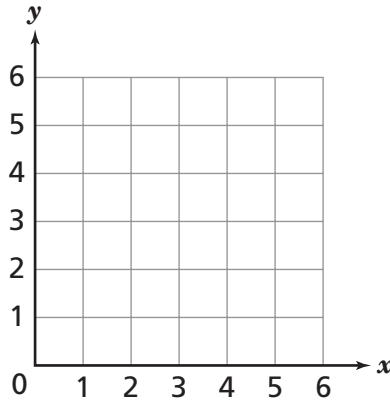
The ratio of the number of bananas to the number of apples at a fruit stand is 3:5. Moe says that the ratio is equivalent to 12:25. In the space below, use words, numbers, or symbols to show why Moe's statement is incorrect.

Be sure to provide a ratio equivalent to 3:5 in your answer.

***Go On***

**29**

Matthew plans to plot point A at (2, 3).



Plot **and** label point A on the coordinate plane using Matthew's coordinates.

On the lines below, explain how you determined where to plot the coordinates.

---

---

---

---

---



**30**

Patty has 123 CDs in her music collection. Of the 123 CDs, 27 are country music.

**Estimate** the percent of Patty's CDs that are country music CDs.

**Estimation** \_\_\_\_\_ %

On the lines below, explain how you determined your estimation.

---

---

---

---

---

---

***Go On***

**31**

At a bakery, there are 16 packages of hamburger buns for sale. The baker placed 8 hamburger buns in each package. He uses the equation below to calculate the total number of hamburger buns,  $b$ , for sale.

$$\frac{b}{8} = 16$$

What is the total number of hamburger buns for sale at the bakery?

**Show your work.**

**Answer** \_\_\_\_\_ hamburger buns

**32**

The temperature in Buffalo, New York, one Saturday was  $68^{\circ}\text{F}$ . The temperature the following Monday was  $80^{\circ}\text{F}$ . Write an equation that shows the change in temperature when  $x$  represents the number of degrees the temperature increased.

**Equation** \_\_\_\_\_

How many degrees did the temperature increase?

**Show your work.**

**Answer** \_\_\_\_\_ degrees

**Go On**

**33**

What fraction can be used to create a proportion with  $\frac{4}{12}$ ?

**Answer**  $\frac{4}{12} =$  \_\_\_\_\_

On the lines below, explain how you determined your answer.

---

---

---

---

---

---

The table below shows the prices of different sandwiches.

### SANDWICH MENU

Item	Price
Small Tuna Sandwich	\$6.00
Small Chicken Sandwich	\$6.50
Large Tuna Sandwich	\$7.00
Large Chicken Sandwich	\$8.00

Leota orders 3 small tuna sandwiches and 3 large chicken sandwiches. What is the total amount Leota will pay for the sandwiches she orders?


**Answer** \$ \_\_\_\_\_






In the space below, show how Leota can use the **distributive** property to calculate the total amount.

**Go On**

The pictograph below shows the number of trees for sale at five different nurseries.

### TREES FOR SALE

KEY	
	= 4 trees

Nursery	Number of Trees
Wilson	
Bryant	
Klein	
Randolph	
Smiley	

How many trees are for sale at the Wilson nursery?

**Answer** \_\_\_\_\_ trees

What is the total number of trees for sale at the Bryant nursery, the Klein nursery, and the Smiley nursery?

**Show your work.**

**Answer** \_\_\_\_\_ trees

# STOP



---

---

Place Student Label Here



**Grade 6**  
**Mathematics Test**  
**Book 2**  
**May 5–7, 2010**

*The McGraw-Hill Companies*

---