

New York State Testing Program

Mathematics Book 2



March 13–17, 2006

Name

47950



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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.
- You may use your tools to help you solve any problem on the test.
- 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.



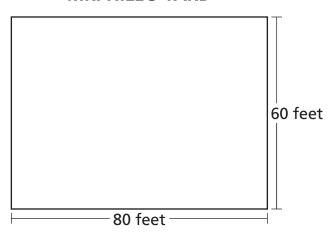
This picture means that you will use your ruler.



This picture means that you will use your protractor.



MR. HILL'S YARD



[not drawn to scale]

Mr. Hill wants to plant grass seed in his yard. He needs to know how much seed he should buy. What is the area of Mr. Hill's yard?

Answers	quare teet	
On the lines below, explain you	ır answer.	

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4	

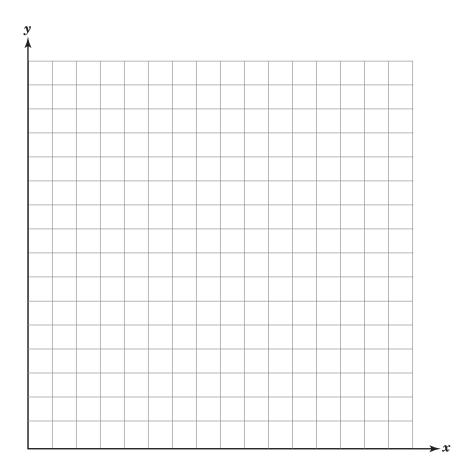
In Ms. Fletcher's class, 7 of the 20 students attend an after school art program. What percent of the students attend the after school art program?

Show your work.

Answer ______ %

Part A

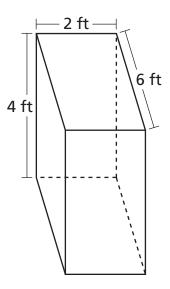
On the grid below, draw a rectangle with a perimeter of 34 units.



Part B

What are the lengths of each side of the rectangle?

Δηςωργ	unite



[not drawn to scale]

Part A

What is the volume of the box? Use the formula V = lwh.

Show your work.

Answer _____ cubic feet

Part B

If the height of the box is doubled, what will be the volume of the new box?
Answer cubic feet
On the lines below, explain how you found your answer.

30 Solve the equation below for r.

$$r - 9 = 16$$

Show your work.

Answer *r* = _____

31	On Friday, Lewis saw a certain number of hummingbirds, h. On Saturday, he saw 3 more than twice the number of hummingbirds he saw on Friday.
	Write an expression for the number of hummingbirds Lewis saw on Saturday.
	Expression
32	Avery is comparing two expressions. The first expression is 8^3 . The second expression is 3^5 . Which expression is greater?
	Show your work.
	Answer

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3	3
))

At Anthony's school, 25% of the 72 sixth-grade students wear either glasses or contact lenses.

Part A

How many sixth-grade students wear either glasses or contact lenses?

Show your work.

Answer	students
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Part B

There are 9 students who wear glasses. Of the students who wear glasses or contact lenses, what percent wear glasses?

Show your work.

Answer ______ %

34	
	The other half are colored plastic: 10 red, 10 green, and 10 blue.

Part A

If Kyle randomly takes a paperclip out of the container, what is the probability that the paperclip will be colored plastic?

Probability	

Part B

If Kyle randomly takes a paperclip out of the container, what is the probability that the paperclip will be red or green?

Probability	
On the lines below, explain your answer.	

7	
-	
_	_

Frank's grocery bill is \$40.43. After Frank uses some coupons, the bill is \$30.35.

Part A

By rounding to the nearest dollar, estimate the amount of money Frank saved.

Answer \$ _____

Part B

What is the approximate percent that Frank saved on his grocery bill?

Show your work.

Answer ______%

STOP



Place Student Label Here



Grade 6
Mathematics
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