New York State Testing Program

Mathematics Test
Book 2

Grade 5

March 5–9, 2007

Name _____

49173

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Book 2

Tips for taking the test

Here are some suggestions to help you do your best:

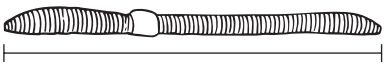
- Be sure to read carefully all the directions in the test book.
- You may use your tools to help you solve any problem on the test.
- Read each question carefully and think about the answer before writing your response.
- Be sure to show your work when asked. You may receive partial credit if you have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

This picture means that you will use your ruler.

This picture means that you will use your protractor.

27  Use your ruler to help you solve this problem.

Dana collected worms after a rainstorm. The drawing below shows the first worm she collected.



Part A

How many centimeters long is the worm?

Answer _____ centimeters

Part B

The second worm Dana collected was 3 centimeters longer than the first worm. Draw a line that shows the total length of the second worm Dana found.

Go On

28 Trisha places an order for balloons to hand out at a city parade. She creates the pictograph below to record the number of each color of balloon she orders.

BALLOONS

Color	Number of Balloons
Red	
Green	
Blue	
Yellow	
White	

KEY
 = 8 balloons

Part A

How many red balloons does Trisha order?

Answer _____ red balloons

Part B

Trisha later decides to place an order for purple balloons. The number of purple balloons she orders is greater than the number of yellow balloons and less than the number of white balloons. Predict the number of purple balloons Trisha orders. Use the data in the pictograph.

Answer _____ purple balloons

On the lines below, explain how you made your prediction.

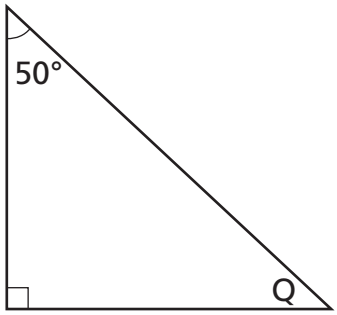
29 A roller coaster makes 23 trips each day. It carries 119 passengers on each trip. What is the total number of passengers the roller coaster carries each day?

Show your work.

Answer _____ passengers

Go On

30 Andre drew the triangle below but did not write the degree measure for ∠Q.



[not drawn to scale]

What is the measure of ∠Q?

Answer _____ degrees

On the lines below, explain how you can determine the measure of ∠Q without using a protractor.

31  Use your protractor to help you solve this problem.

Anna built a fence around her yard.

Part A

The diagram below shows the angle of one corner of her yard.

What is the measure of $\angle A$?

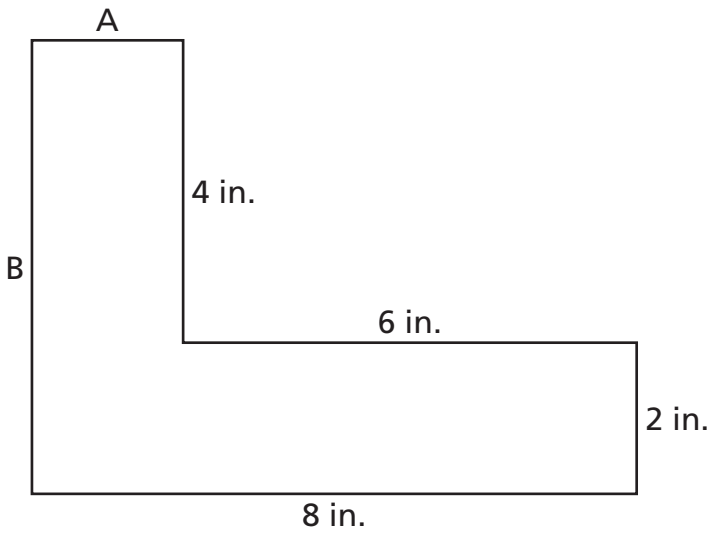
Answer _____ degrees

Part B

Another corner of Anna's yard measures 60°. In the space below, draw a 60° angle.

Go On

32 Larry's father made a shape out of a block of wood. The diagram below shows the outline of the shape.



[not drawn to scale]

Part A

What is the length, in inches, of side B?

Answer _____ inches

Part B

What is the perimeter, in inches, of the block?

Answer _____ inches

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

33 At a music concert, four students performed a clapping song. The number of claps, *c*, each student performed during the song is shown in the table below.

CLAPPING SONG

Student	Number of Claps (*c*)
Ramona	6
Dean	12
Holly	18
Colin	24

Part A

Write the rule for the pattern in the table.

Show your work.

Rule _____

Part B

Write the rule for the pattern in the table if the number of claps Holly performs changes to 24 and the number of claps Colin performs changes to 48.

Rule _____

Go On

34  Use your protractor to help you solve this problem.

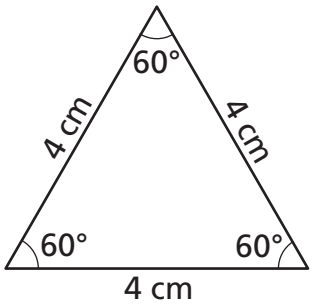
Bonita is learning about triangles at school.

Part A

Bonita cut out right triangles for an art project. In the space below, draw a right triangle that Bonita could have cut out. Place a right angle symbol at the correct location.

Part B

In math class, Bonita drew and labeled the triangle below.



What type of triangle did Bonita draw?

Answer _____ triangle

On the lines below, explain how you determined the type of triangle Bonita drew.

STOP

Place Student Label Here

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