New York State Testing Program

Mathematics Test
Book 2

Grade 5

March 2–6, 2009

Name _____

21314

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Book 2

Tips for taking the test

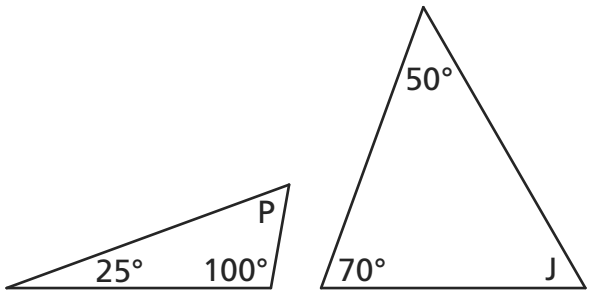
Here are some suggestions to help you do your best:

- Be sure to read carefully all the directions in the test book.
- 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 Malik draws the two triangles shown below. He asks Zoe to calculate, without using a protractor, the measures for ∠P and for ∠J.



[not drawn to scale]

What measures should Zoe write for ∠P and for ∠J?

Show your work.

Answer ∠P _____ degrees

∠J _____ degrees

Go On

28 Kenny went to lunch and ordered his meal from the menu shown below. All prices include tax.

MENU

Sandwiches and Sides	Cost
Vegetable burger	$5.95
Cheeseburger	$6.95
Double cheeseburger	$8.95
Side salad	$2.50
Potato salad	$1.50
French fries	$1.50

Kenny ordered a cheeseburger, a side salad, and French fries. He paid for his lunch with a $20 bill. How much change did Kenny receive?

Show your work.

Answer $ _____

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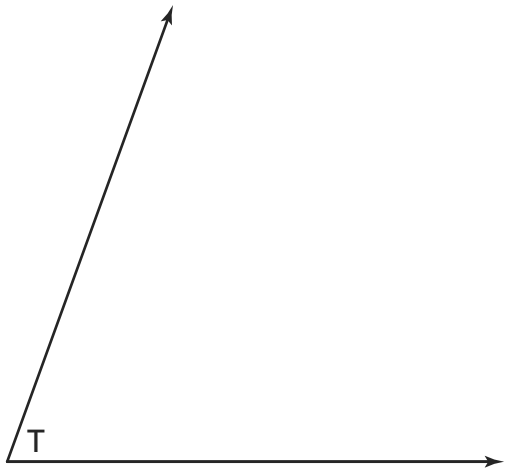
29 Use your protractor to help you solve this problem.

Ella drew $\angle T$, as shown below.



Part A

What is the measure of $\angle T$?

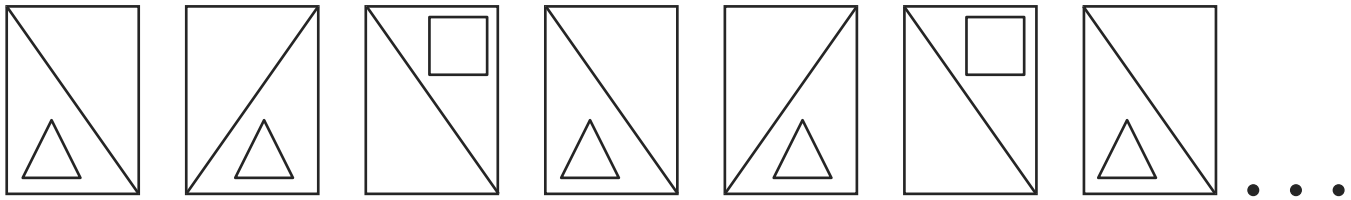
Answer _____ degrees

Part B

In the space below, draw an angle with a measure that is twice the size of $\angle T$.

Go On

30 Edwin drew the repeating pattern below.



In the space below, draw the 8th, 9th, and 10th figures in the pattern.

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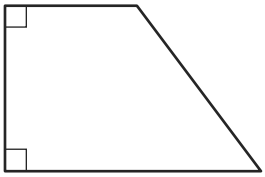
31

Use your ruler to help you solve this problem.

Use your protractor to help you solve this problem.

Part A

Gail's teacher asked her to identify two properties of the quadrilateral below.



[not drawn to scale]

On the lines below, complete Gail's statements about the quadrilateral.

This quadrilateral has exactly _____ right angles.

This quadrilateral has exactly _____ opposite parallel sides.

Part B

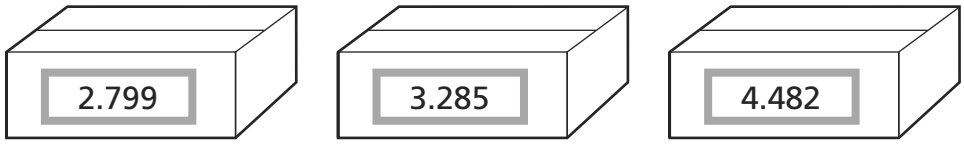
Shelby's teacher asked her to draw a figure with the properties listed below:

- It is a quadrilateral.
- There are two pairs of opposite parallel sides.
- The opposite parallel sides are the same length.
- All the angles have the same degree measure.

In the space below, draw Shelby's figure.

Go On

32 On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.



Part A

Write the length of each of the car parts rounded to the nearest hundredth.

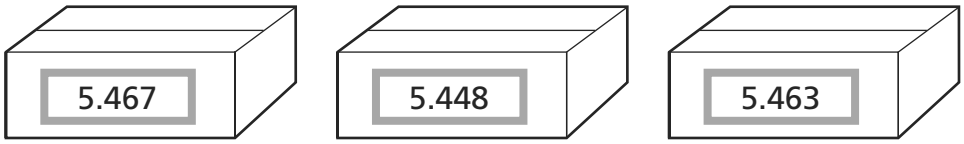
Answer _____ centimeters

_____ centimeters

_____ centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from **least** to **greatest**.

Least _____ centimeters

_____ centimeters

Greatest _____ centimeters

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

Go On

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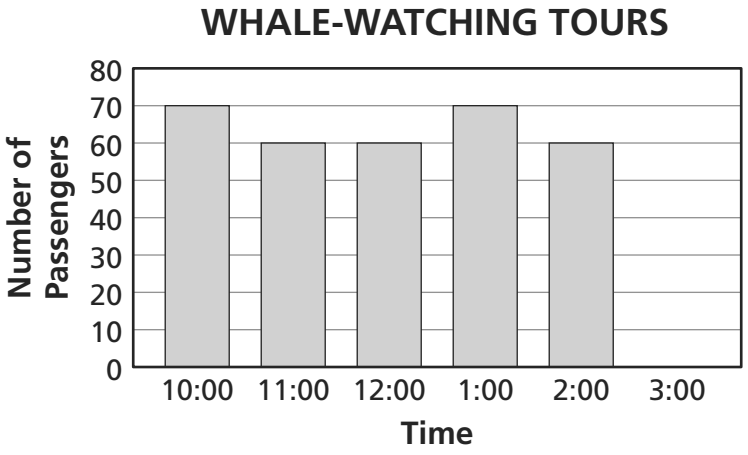
33 Sheri operates whale-watching boat tours. The graph below shows the number of passengers on five of the tours for one day.



Part A

Sheri's goal is to have 380 passengers each day. How many passengers are needed on the 3:00 tour for Sheri to reach her goal?

Show your work.

Answer _____ passengers

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Part B

Use the data in the graph to explain whether Sheri is likely to meet her goal.

Go On

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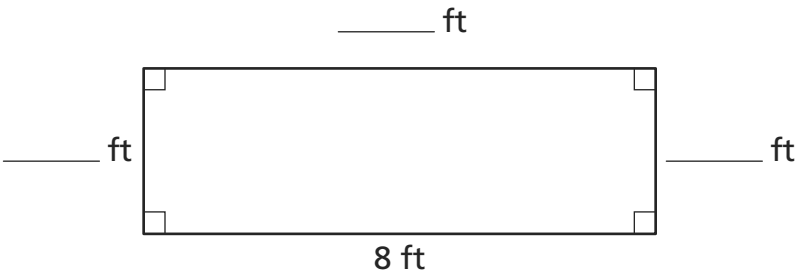
34 The perimeter of the rectangle shown below is 26 feet. One side of the rectangle measures 8 feet. Label the measures, in feet, of the remaining three sides of the rectangle.



[not drawn to scale]

In the space below, use words, numbers, or symbols to explain or show how you determined what numbers to use to label the sides of the rectangle.

STOP

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Place Student Label Here

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