New York State Testing Program

Mathematics Test
Book 2

Grade 5

May 5–7, 2010

Name _____

21651

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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 Which rectangle below has the **greatest** perimeter?

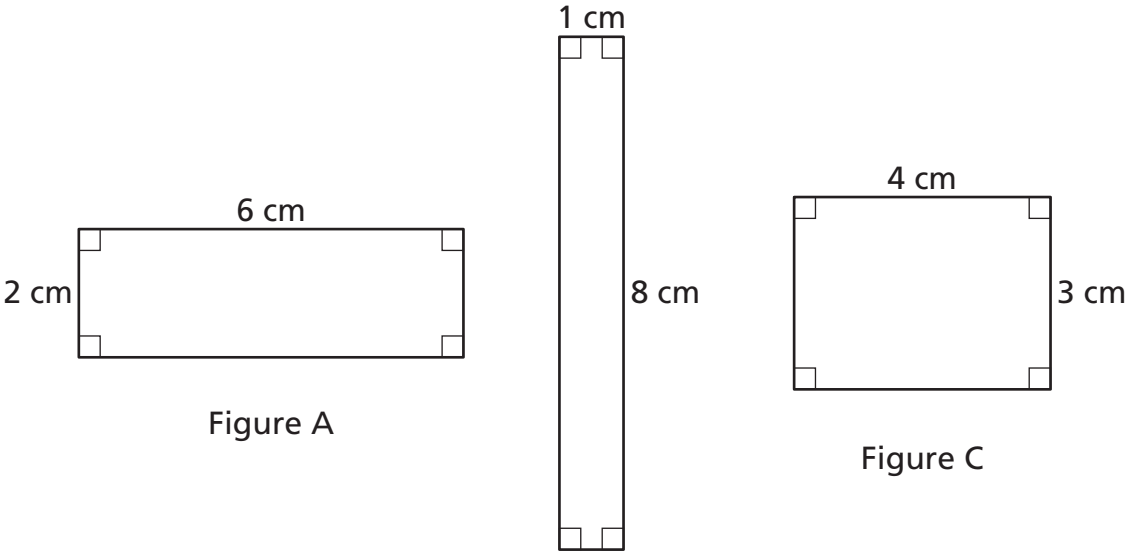


Figure A

Figure B

Figure C

[not drawn to scale]

$P = 2l + 2w$

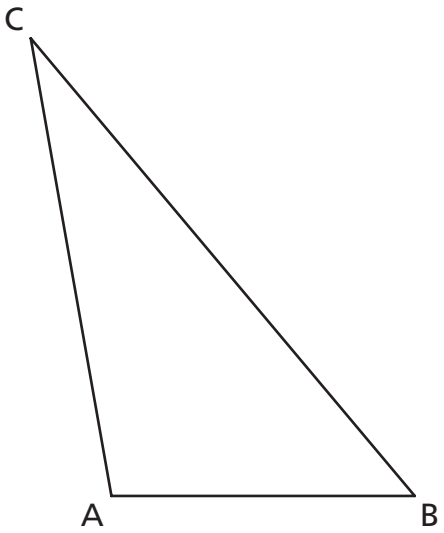
Show your work.

Answer _____

Go On

28 Use your protractor to help you solve this problem.

Raymond drew Triangle ABC below.



What is the measure of ∠A in Triangle ABC?

Answer _____ degrees

In the space below, draw an angle that measures the same number of degrees as ∠B in Triangle ABC.

■ **SECURE MATERIAL** ■
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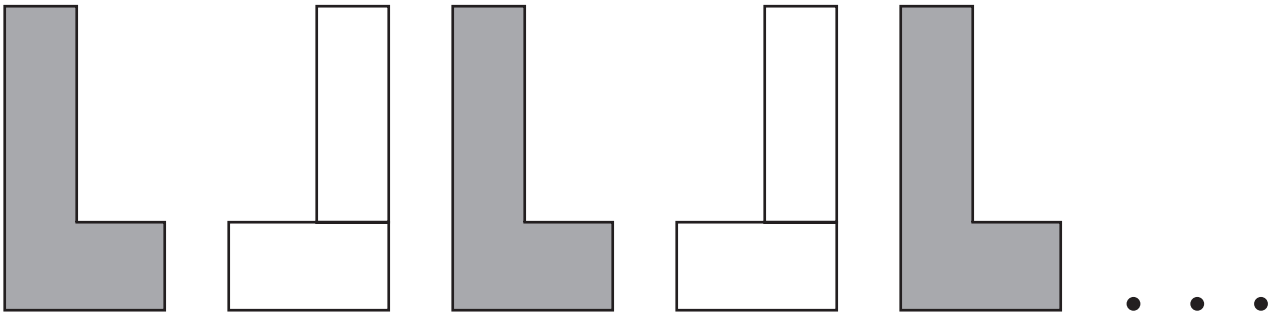
29 Roberto used pairs of blocks to create the repeating pattern below.



Part A

In the space below, draw the next shape that will continue this repeating pattern.

Part B

On the lines below, explain the rule for the pattern.

Go On

30 Alice draws a triangle and measures two of the angles with a protractor. The angle measures are 65° and 45°.

Cal says the measure of the third angle is 60°. On the lines below, explain why Cal's answer is incorrect.

Be sure to identify the correct measure of the third angle in Alice's triangle in your explanation.

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31 Ellie set a reading goal for the summer. She has completed 71% of her goal. What **decimal** is equivalent to the percent of the goal that Ellie has completed?

Answer _____

What part of the goal does Ellie **still** need to complete? Write your answer as a fraction.

Show your work.

Answer _____

Go On

32 Figure A and Figure B are congruent.

Figure A

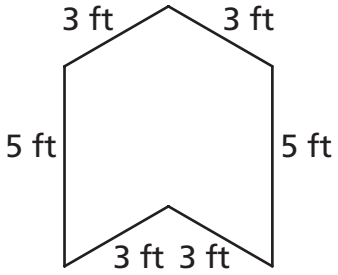
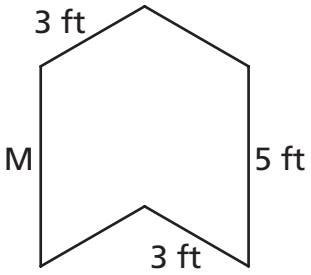


Figure B



[not drawn to scale]

What is the length of side M in Figure B?

Answer _____ feet

What is the perimeter of Figure B?

Answer _____ feet

On the lines below, explain how you determined the perimeter of Figure B.

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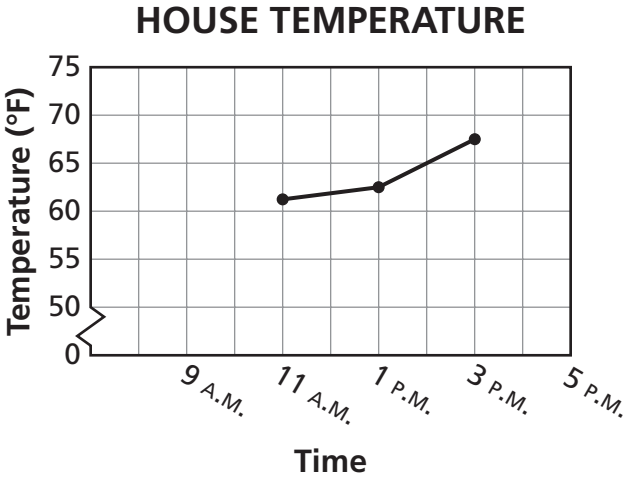
33 Jordan recorded the temperature in her house every 2 hours. A portion of her data is shown on the line graph below.



Part A

The temperature in Jordan's house at 9:00 A.M. **and** at 5:00 P.M. was 65°. Plot these points, and then connect the points to complete the graph.

Part B

What was the **approximate** temperature in Jordan's house at 11:00 A.M.?

Answer _____ degrees

What was the **approximate** difference in temperature from 1:00 P.M. to 3:00 P.M.?

Answer _____ degrees

Go On

34 The daily schedule for Ms. Merfeld's students is shown below.

SCHEDULE

Activity	Time
Reading	8:35 A.M.–9:55 A.M.
Recess	9:55 A.M.–10:10 A.M.
Social Studies	10:10 A.M.–10:40 A.M.
Language Arts	10:40 A.M.–11:45 A.M.
Lunch	11:45 A.M.–12:25 P.M.
Math	12:25 P.M.–1:15 P.M.
Science	1:15 P.M.–2:00 P.M.
Art	2:00 P.M.–2:25 P.M.

Which activity is scheduled for the **least** amount of time?

Answer _____

A student in Ms. Merfeld's class believes the amount of time scheduled for Language Arts is **greater** than the amount of time scheduled for Science. On the lines below, explain whether the student is correct.

STOP

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Place Student Label Here

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