

Mathematics Test Book 2



March 12–16, 2007 Name



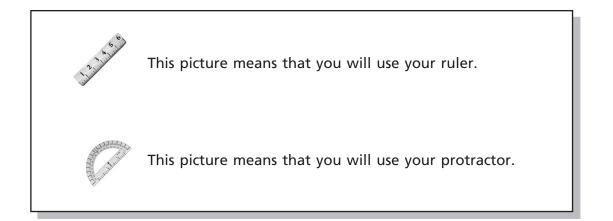
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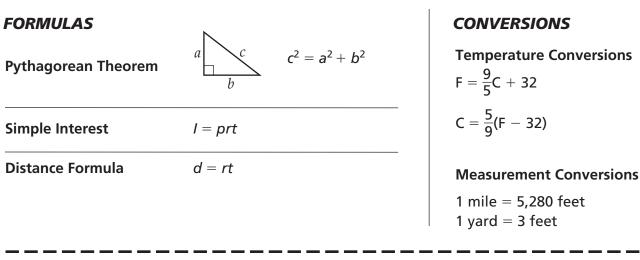
TIPS FOR TAKING THE TEST

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.
- Use your calculator to help you solve the problems on this part of the test.

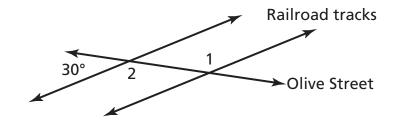


Mathematics Reference Sheet



Book 2

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[not drawn to scale]

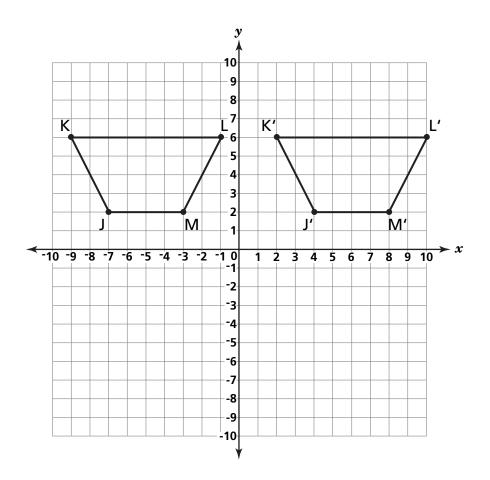
What is the measure of $\angle 1$?

Show your work.

Answer _____ degrees

Go On

29 Trapezoid JKLM and its transformation trapezoid J'K'L'M' are plotted on the grid below.



Part A

Name the transformation that was applied to trapezoid JKLM to get trapezoid J'K'L'M'.

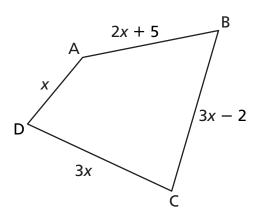
Answer _____

Part B

On the lines below, explain how you determined what transformation was applied to trapezoid JKLM to get trapezoid J'K'L'M'.

Go On

30 In the figure ABCD shown below, the total length of the sides equals 84 inches.



[not drawn to scale]

Find the length of side \overline{BC} .

Show your work.

Answer _____ inches

31 The transportation department recommends increasing highway tolls by 20% to raise money for road repairs. The current highway toll is \$1.50. What will be the **new** toll after the 20% increase?

Show your work.

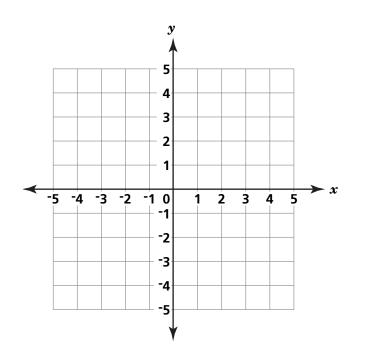
Answer § _____

Go On

32 Complete the table of values for the equation y - 3x = 2.

x	у
-2	
-1	
0	
1	

Using the table of values, graph the line of the equation on the coordinate plane below.



33 Rashid wrote the sentence below.

Forty-eight is greater than or equal to four plus the product of a certain number, x, and eleven.

Write Rashid's sentence as an algebraic inequality.

Answer _____

STOP

Place Student Label Here



Grade 8 Mathematics Test Book 2 March 12–16, 2007

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