

Name: _____

2003, Mathematics - Grade 10

Question 41: Open Response



Geometry

When a map of the Caribbean Sea is placed on a grid, Island A is represented by $A(2, 1)$, and Island B is represented by $B(6, 4)$. Graph and label these points on the grid in your Student Answer Booklet.

- What is the length of line segment \overline{AB} on the grid? Show or explain how you got your answer.
- If each unit on the grid represents 12 actual miles, what is the shortest distance in miles from Island A to Island B? Show or explain how you got your answer.
- On the same map and grid, Island C is represented by $C(2, 3)$. Graph point C on the same grid used in part a. What is the least possible number of miles in a complete round trip of the three islands? (From A to B to C and back to A). Show or explain your answer.

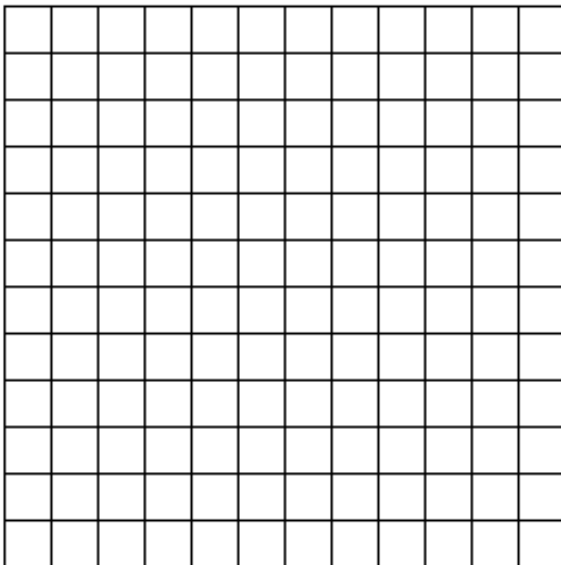
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Question 7: Multiple Choice



Geometry

You may want to use the grid below to answer question 7.



On the coordinate plane, what is the distance between the points $(3, 4)$ and $(11, 10)$?

- 10
- 7
- 5
- 14

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Question 25: Multiple Choice

Geometry



\overline{AB} has one endpoint at $A(2, 5)$, and its midpoint is at $(4, 0)$. What are the coordinates of B , the other endpoint of \overline{AB} ?

- A. $(2, -5)$
- B. $(3, 2.5)$
- C. $(6, -5)$
- D. $(6, 2.5)$

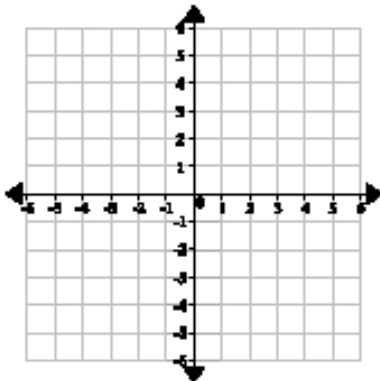
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Question 14: Short Answer

Geometry



You may want to use the following grid to help you answer question 14.



What are the coordinates of the midpoint of a line segment with endpoints $(-3, -1)$ and $(5, 3)$?