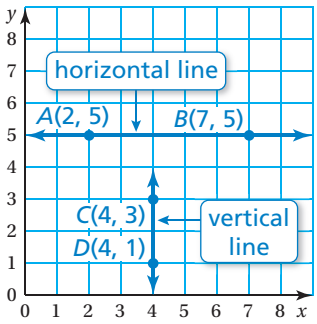
REVIEW: Finding Distance in a Coordinate Plane

Name _____

Key Concept and Vocabulary

Points A and B lie on the same horizontal line.
There are 5 units between points A and B.
So, the distance between points A and B is 5.

Points C and D lie on the same vertical line.
Points C and D have the same x-coordinates.
Subtract the y-coordinates. $3 - 1 = 2$.
So, the distance between points C and D is 2.



Skill Examples

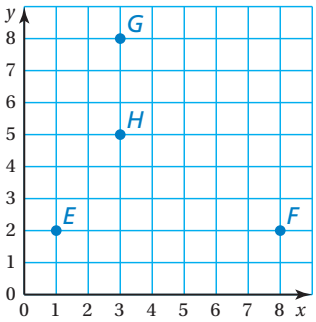
Find the distance between the points in the coordinate plane.

1. E and F

   7

2. G and H

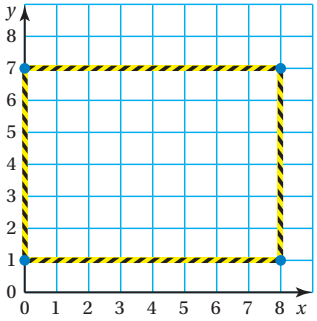
   3



Application Example

3. A construction crew places caution tape around a rectangular area of a road. How many yards of tape does the crew use?

$P = (2 + \ell) + (2 \times w)$
$= (2 \times 8) + (2 \times 6)$
$= 16 + 12$
$= 28$ yards



Each unit represents 1 yard.

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Check your answers at BigIdeasMath.com.

Find the distance between the points in the coordinate plane.

4. I and J

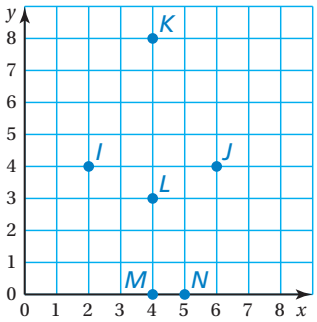
   4

5. K and L

   5

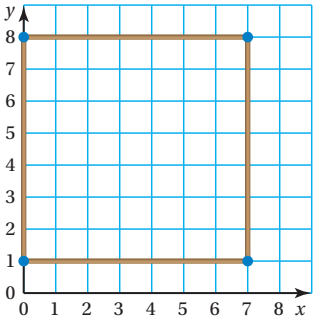
6. M and N

   1



7. **BALANCE BEAMS** You walk once around a rectangular arrangement of balance beams. How far do you walk in feet?

   28 feet



Each unit represents 1 foot.