



-6 -8

## QUESTION....

 How many miles is it DIRECTLY from Nashville to Memphis? (As the crow flies)



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# How far are these points from each other???



# How far are these points from each other???



# How far are these points from each Can't count diagonally! other??? 8 $3^{2}+2^{2}=x^{2}$ $9+4=x^{2}$ $13=x^{2}$ 6 X 4 3 3.6≈× æ

#### How can we get the EXACT distance???



#### Finding the Distance between Points in the Coordinate Plane

- Draw a right triangle
- Count the side lengths
- Use the Pythagorean Theorem!

### Find the distance between the points.



### Find the distance between the points.



# Example 3

What is the distance between (-3, 2) and (4, 6)? Draw a picture to help!!!



# Example 4 (No graph!)

• Can you figure out what the distance would be between (25,10) and (45,16)?

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$$20^{2}+6^{2}=x^{2}$$

$$436 = x^{2}$$

# Example 5

• Find the perimeter of the triangle.



# **BONUS:**

 Find the area and perimeter of a 15.6 inch laptop screen that has a height of 8 inches.



### HW: p.415 (1 – 6, 12) p. 435 (1 – 4) • DUE TOMORROW