

10/07/15
Distance Practice

Standards
MCC8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

Feb 21-12:49 PM

Homework Answers

1. 5.8 units 2. 9.9 units 3. 6.1 units

4. 10.3 units 5. 14.9 units 6. 10.2 units

Farmer's Market: (0, 6) Marina: (2, -4)
Park: (6, 7) Bank: (-5, -3)
School: (9, 3) Post Office: (-2, 2)

1. What is the distance from the post office to the bank?

2. What is the distance from the marina to the school?

3. What is the distance from the park to the farmer's market?

4. What is the distance from the farmer's market to the bank?

5. What is the distance from the bank to the park?

6. What is the distance from the marina to the farmer's market?

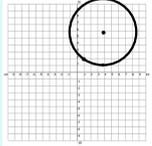
Hemp thread

Practice $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

- Find the length of AC given A(2, 3) and C(5, 7).
- Find the length of AB given A(3, -4) and B(-2, 3).
- Find the distance between the points (-4, -5) and (1, -2).
- What is the distance between points A(-6, 3) and B(6, 8).

Mar 24-2:10 PM

Practice $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$



- The point (1, 2) lies on a circle. What is the length of the radius of this circle if the center is located at (4, 6)? (Find the distance between the center and the point on the circle.)
- The point (5, 4) lies on a circle. What is the length of the radius of this circle if the center is located at (3, 2)?
- The point (-2, -1) lies on a circle. What is the diameter of this circle if the center is located at (0, 4)? (Find the distance between the center and the point on the circle, then double it.)
- The point (4, 5) lies on a circle. What is the diameter of this circle if the center is located at (7, 9)?

Mar 24-2:10 PM

Practice

The following information gives the location of different places in Townsville. Use the locations and the distance formula to answer the questions below. Each unit represents 1 mile.

$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

 Bank (-3, -1)	 Library (4, 5)	 Post Office (2, -3)	 Deli (-5, 3)
 Water Dept. (0, 3)	 Police Station (-1, 2)	 Fire Station (-5, -2)	 Courthouse (1, 5)

Find the distance between the following places in the town.

-  to 
-  to 
-  to 
-  to 

5. Hannah was at home studying. Her mom called and asked if she could run to the Courthouse to pick up some documents then go back home to start dinner. If Hannah's house is located at (4, 0), how far did Hannah travel?

6. Jeremy works at the Fire Station. During his lunch break, he went to the Bank to deposit his paycheck. From the bank, he went to mail a letter at the Post Office, then met his friend at the Deli for lunch. After lunch, he went back to work. How far did Jeremy travel during his lunch break?

Mar 24-2:10 PM

Homework
Finish Worksheet

Feb 21-11:30 AM