

Pythagorean Theorem Assignment

Short Answer

1. An airplane is 105 km due south of an airport. Another airplane is 80 km due west of the airport. How far apart are the planes? Give your answer to the nearest kilometre.

Answer: _____

2. A rectangular carpet measures 6 m by 5 m. What is the distance between opposite corners? Give your answer to 1 decimal place.

Answer: _____

3. The diagonal of a TV screen is 71 cm. The screen is 63 cm wide. What is the height of the screen? Give your answer to 1 decimal place.

Answer: _____

4. A boat sails due south from a port at a steady speed of 9 km/h. The wind blows the boat due west at a speed of 3 km/h. How far is the boat from the port after 1 h? Give your answer to 1 decimal place.

Answer: _____

Name: _____

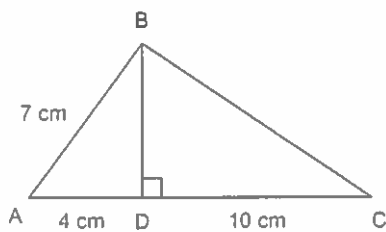
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5. A rectangular sports field measures 100 m by 75 m.
How far will Wendy run if she runs diagonally across the field?
Give your answer to the nearest metre.

Answer: _____

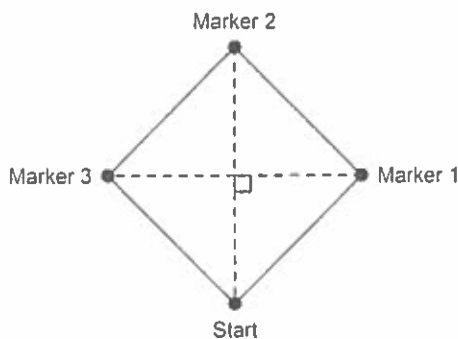
Problem

6. Find the length of BC to the nearest tenth. Show your work.



Answer: _____

7. At a water sports centre, 4 markers form a square with side length 90 m.
Evan kayaked from Start to Marker 1, then to Marker 2.
From Marker 2 he kayaked straight back to Start.
How far, to the nearest metre, did he kayak?



Answer: _____