



Name _____ Class _____ Date _____

Pythagoras is building a fence around his farm. He has measured the total perimeter and has found the shortest rectangular distance to be 48 km. He needs to build the fence with three layers of wiring and expects that he will need to put a post in the ground at every meter. Pythagoras is going to put a metal gate in one side which will be two meters long.



1. How much wire will Pythagoras need?
2. How many posts will he need to dig holes for?

Wooden posts cost \$10.00 for a bundle of 12 and wire costs \$0.35 a meter. The metal gate will cost \$25.00.

3. What is the total cost of the materials needed for Pythagoras' fence?

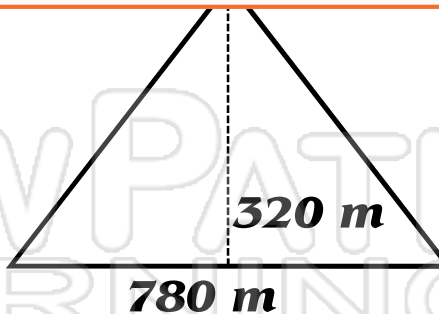


PREVIEW

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FOR SALE

A prime piece of real estate situated in the Chimerical Valley. This large triangular field offers views as far as the eye can see.



If the price of the land is calculated by measuring the total area and 1 square meter is equal to \$500, what should Pythagoras be paying?



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1. How much wire will Pythagoras need? **144 km of wire (i.e. exactly 143,994 km)**
 2. How many posts will he need to dig holes for? **47,999 (minus 1 for where the gate takes up 2 meters)**
- Wooden posts cost \$10.00 for a bundle of 12 and wire costs \$0.35 a meter. The metal gate will cost \$25.00.
3. What is the total cost of the materials needed for Pythagoras' fence? **\$90,422.07**

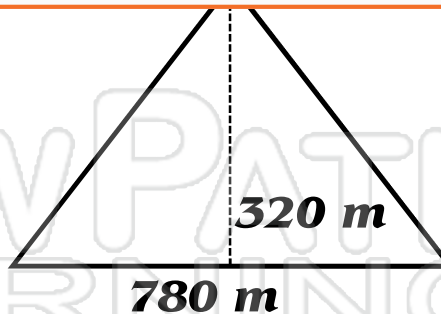


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If the price of the land is calculated by measuring the total area and 1 square meter is equal to \$500, what should Pythagoras be paying? **\$62,400**