

*(Using right triangles)*

A flower garden is in the shape of a right triangle. The longest side of the triangle is 13m. One of the shorter sides (legs) is 7 m longer than the other. Find the length of the two sides.

The diagonal measure of a movie screen is 10m. The length of the screen is 2m greater than the height. Find the dimensions of the screen.

A drainage trench is dug 25m diagonally across a pasture that is in the shape of a rectangle . One side of the pasture is 5 m longer than the other. What are the dimensions of the pasture (length and width)

A prospector has claimed the mining rights to a rectangular plot of land situated in the north of the Yukon. A fence cuts the property in two running diagonally from the top left to the bottom right hand corner. He has measured it to be 820 m. The length of the claim is 164m more than the width. . What are the dimensions of the sides (length and width)

A mosaic pattern was created on the floor of the Meeting Hall. Each corner repeated the same pattern which was in the shape of a right angled triangle. The three sides of the triangle were designed such that the shortest side (a) is 12m less than the longest ( c) and the middle side length (b) was 6 metres less than the longest side (c). The total combined length of the triangle was 72m. What are the dimensions of the three sides?

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5 and 12

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8 by 6

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15 and 20

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492 & 656

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18, 24, 30m