**Problems Involving Pythagoras Theory**

1. The size of a TV screen is the length of its diagonal. A TV Screen is 56 cm wide and 40 cm high. Calculate the length of its diagonal to the nearest cm.



1. Curtis and Eric are on a hike. They come to a corner of a rectangular field that is 750 x 400 m. Curtis takes a short cut and walks diagonally across the field. Eric walks around 2 sides of the field. How much further does Eric walk?



3. How long is the bottom side of the sail ?







5.75 m 5.75m



2.5 m



1. A ship sailed east for 25 km and then turned south for 35 km. How far was the ship from its starting point?



1. A boy stands 8 m from a flagpole that is 7 m high. There is a can on top of the pole that he wants to hit with a stone. How far is the can from the boy?



1. The S.S. Britsky sailed west from Vancouver at 25 km/h for 2 hours. It then sailed south at 30 km/h for 2 hours. The captain wanted to know about how far the ship was from Vancouver. Calculate the distance.



1. An owl is perched on a tree top. The owl is 39 m from a squirrel it wishes to catch. The squirrel is 22 m from the tree. How tall is the tree?

