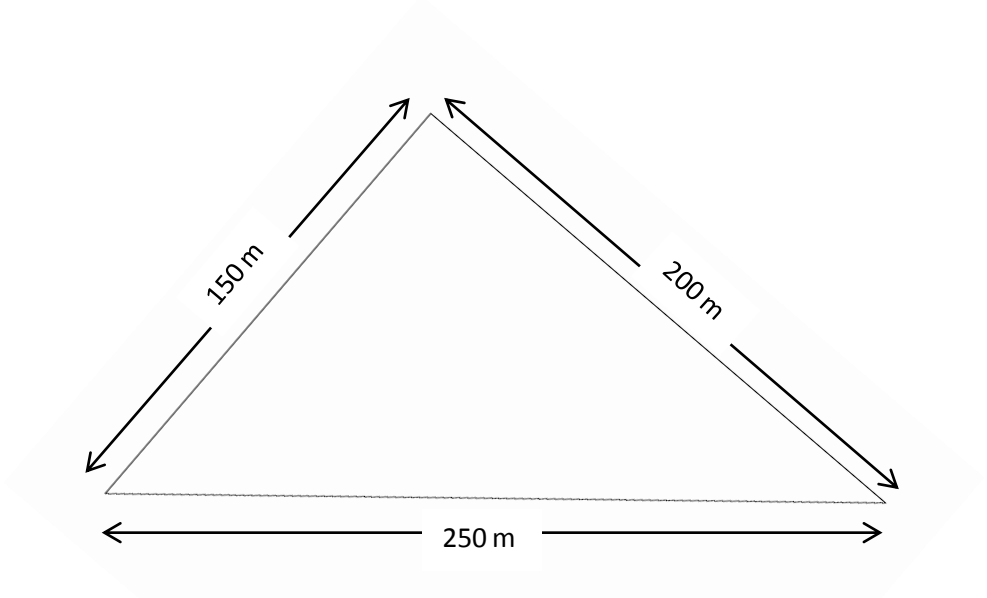


3. Some historians think that the Ancient Egyptians used '3, 4, 5 triangles' made from rope to make accurate right angles. These were used to set out the base of pyramids.

A possible right-angled triangle to be made from three lengths of rope is shown in the diagram.



Assume that the rope lengths are accurate to the nearest metre.

**Calculate** the maximum size of the "right-angle".

Show clearly how you arrived at your answer.