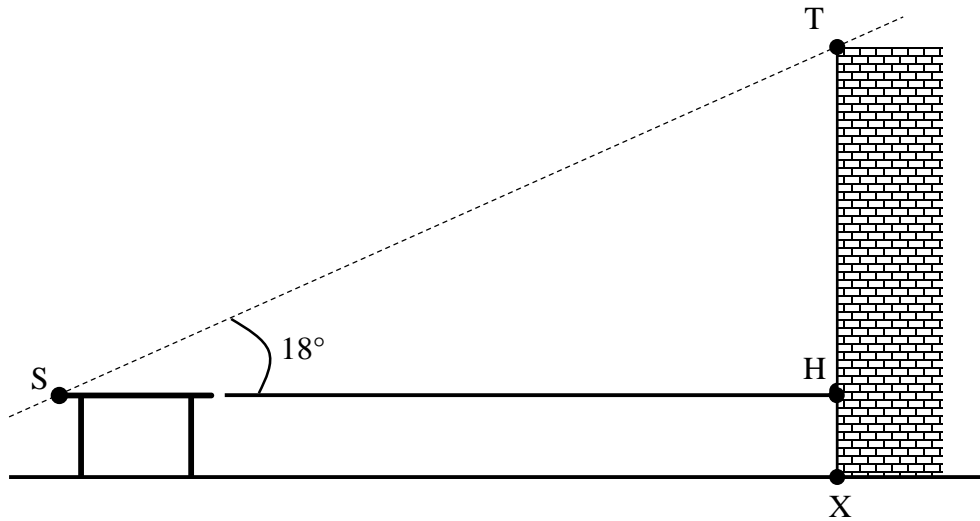


Year 10 Mathematics Worksheet 8

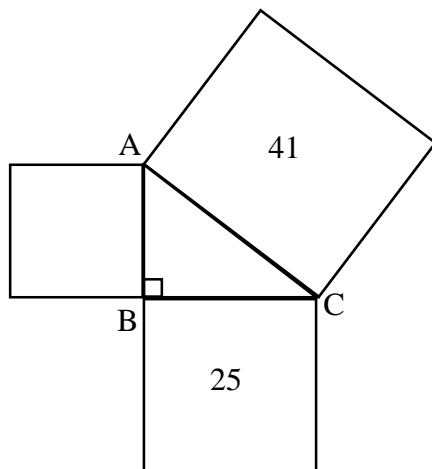
Write the answers in your Exercise Book.

Geometry

1. Rubi is at the end of a level table top at S as shown below. She observes a point T at the top the building at an angle of elevation of 18° . She also observes a point H on the building. SH is horizontal and is measured to be 25 m. The length of HX is 1.2 m.



- (a) Find the length of TH. (2 marks)
- (b) Hence find TX, the height of the building. (1 mark)
2. The diagram shows triangle ABC with squares drawn on each side. The area of the square on side AC is 41 cm^2 and the area of the square on side BC is 25 cm^2 .



- (a) What is the area of the square on side AB? (1 mark)
- (b) What is the length of BC? (1 mark)