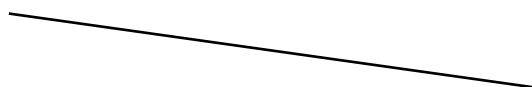Q1. Using a ruler and pair of compasses, construct a triangle with side lengths 4.5 cm, 7.3 cm and 6.5 cm.
You must show all your construction lines.

Answer:_____

(2 marks)

Q2. Use ruler and compasses to construct a perpendicular line from point Q to the line PR. You must show all your construction lines.

Q

Answer:_____

(2 marks)

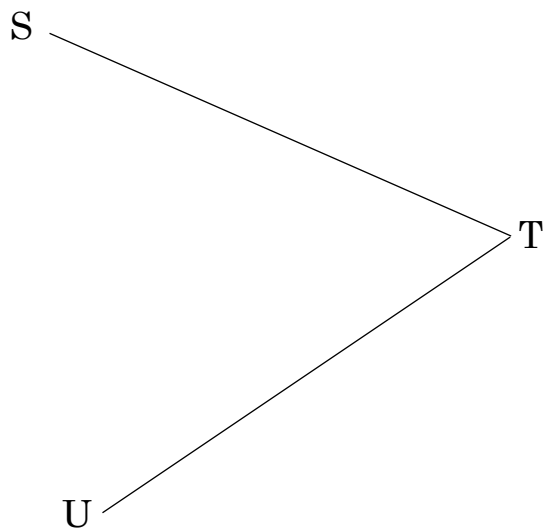Q3. Ted is planning his garden, which has the following features:

- the boundary fence forms an equilateral triangle ABC of side length 12 m.
- at each vertex, a tree is planted, which casts a circular shadow of diameter 6 m.
- a rose-bush which is to be nearer to vertex A than vertex C, and not in the shadow of any tree.

   Using ruler and compasses, and a scale of 1cm = 2m, construct a possible scale model of Ted's garden below. Shade where Ted's rose bush could be planted.

Answer:_____

(4 marks)

Q4. Use ruler and compasses to construct the bisector of angle STU.
You must show all your construction lines.

S

T

U

Answer:_____

(2 marks)