



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate Examination 2018

Mathematics

Foundation Level

Friday, 8 June – Afternoon, 2:00 to 4:30

300 marks

Examination number

Centre stamp

Running total	
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For examiner	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
Total	

Grade

Instructions

There are **two** sections in this examination paper.

Section A	200 marks	8 questions
Section B	100 marks	2 questions

Answer all ten questions.

Write your answers in the spaces provided in this booklet. You may lose marks if you do not do so. You may also ask the superintendent for more paper. Label any extra work clearly with the question number and part.

The superintendent will give you a copy of the *Formulae and Tables* booklet. You must return it at the end of the examination. You are not allowed to bring your own copy into the examination.

You may lose marks if your solutions do not include supporting work.

You may lose marks if the appropriate units of measurement are not included, where relevant.

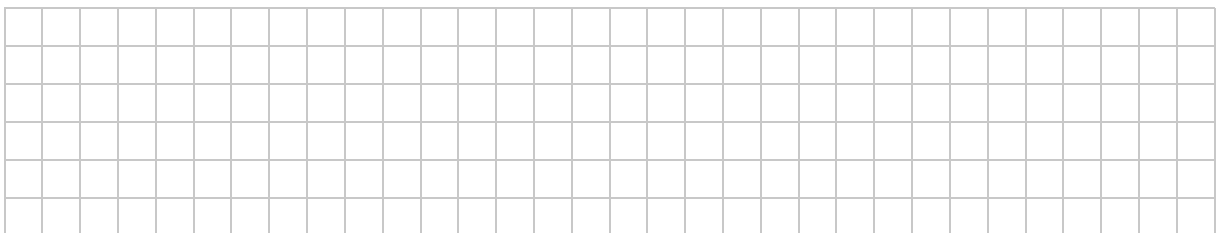
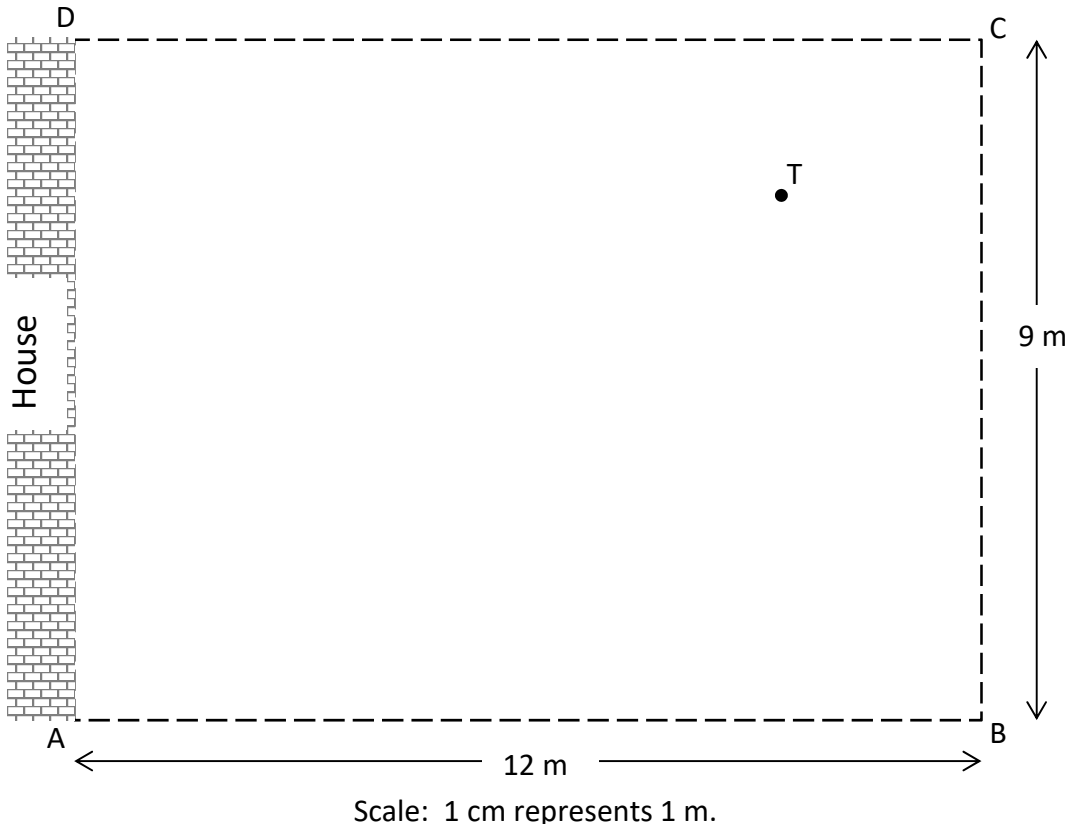
You may lose marks if your answers are not given in simplest form, where relevant.

Write the make and model of your calculator(s) here:

Question 8

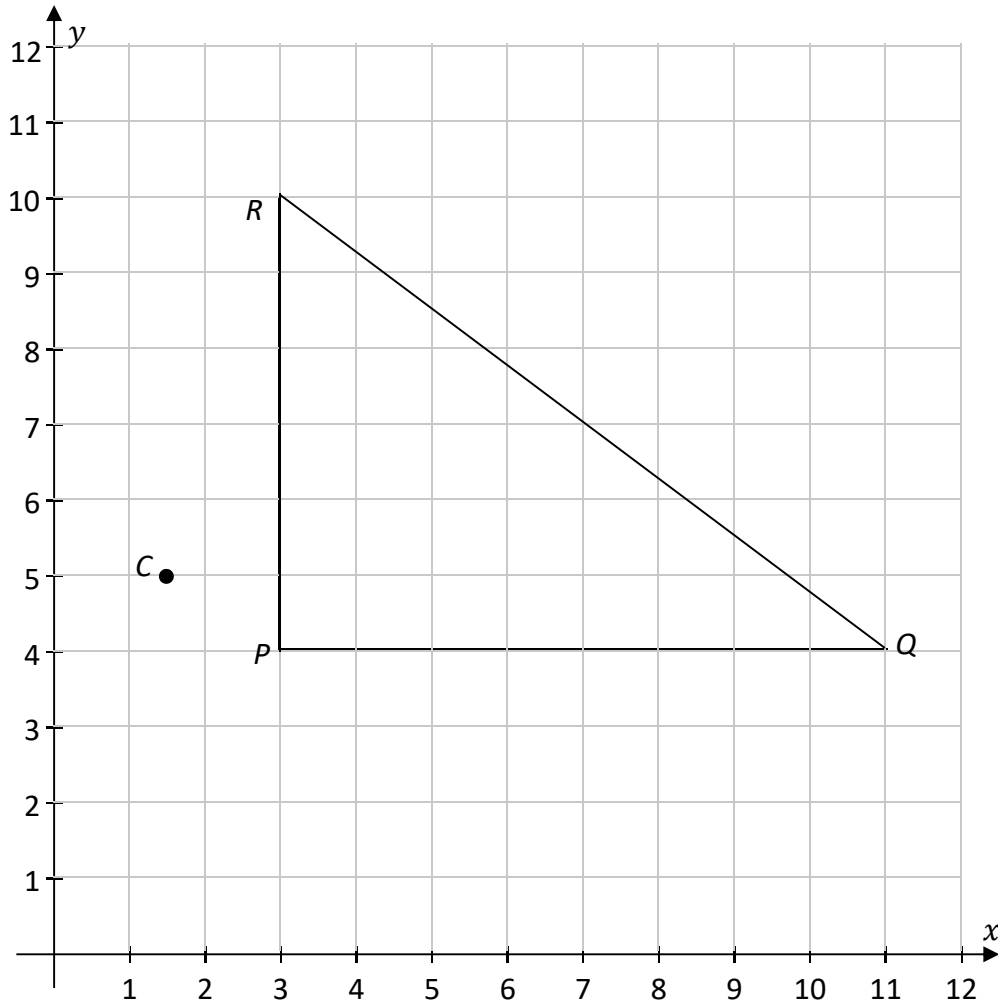
(25 marks)

- (a) Sully’s back garden is in the shape of the rectangle ABCD shown in the scaled diagram below. In the diagram 1 cm represents 1 m. [AD] is the back wall of the house. There is a tree (T) near the end of the garden, as shown in the diagram. Sully wants to put up a bird table in the garden. The table has to be at least 3 m from the house and at least 4 m from the tree. Using your ruler and compass, **draw and shade in** the region of the garden where the bird table could be placed.



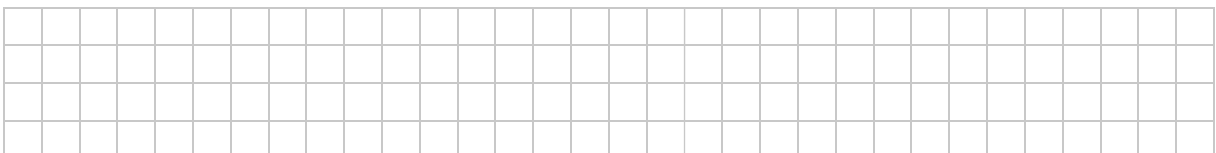
Section B**100 marks**Answer **Question 9** and **Question 10** from this section.**Question 9****(50 marks)**

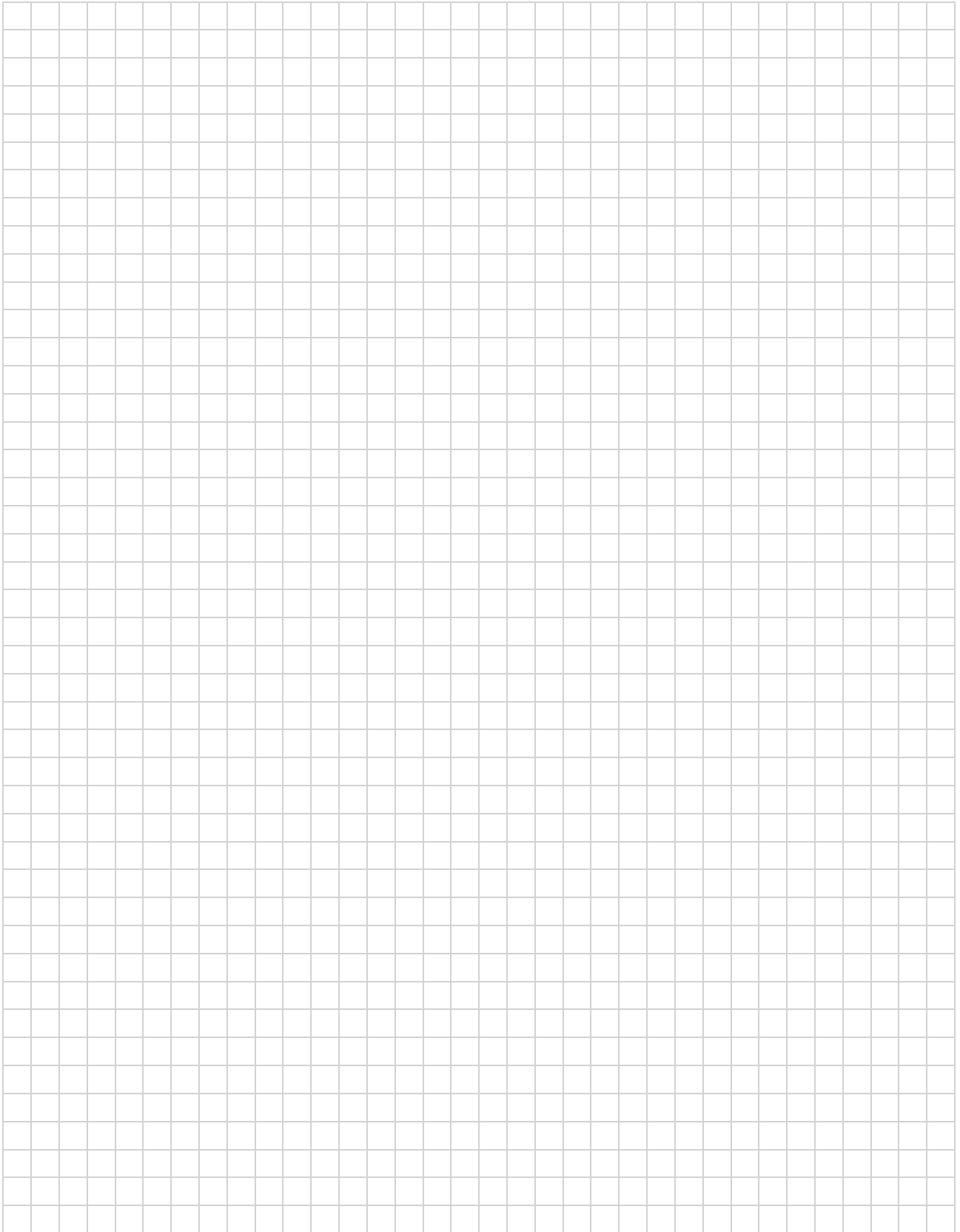
- (a) The triangle PQR is shown in the diagram below, where $P = (3, 4)$, $Q = (11, 4)$, and $R = (3, 10)$.



- (i) Draw the triangle ABC on the same diagram, where $A = (1.5, 2)$, $B = (5.5, 2)$, and $C = (1.5, 5)$.

Note: the point C is already marked in for you.





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