

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Education
Advanced Subsidiary Examination
June 2014

Mathematics

MPC1

Unit Pure Core 1

Monday 19 May 2014 9.00 am to 10.30 am

<p>For this paper you must have:</p> <ul style="list-style-type: none"> the blue AQA booklet of formulae and statistical tables. <p>You must not use a calculator.</p>	
---	--

Time allowed

- 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- Write the question part reference (eg (a), (b)(i) etc) in the left-hand margin.
- You must answer each question in the space provided for that question. If you require extra space, use an AQA supplementary answer book; do **not** use the space provided for a different question.
- Do not write outside the box around each page.
- Show all necessary working; otherwise marks for method may be lost.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- The use of calculators is **not** permitted.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 75.

Advice

- Unless stated otherwise, you may quote formulae, without proof, from the booklet.
- You do not necessarily need to use all the space provided.

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	



2

A rectangle has length $(9 + 5\sqrt{3})$ cm and area $(15 + 7\sqrt{3})$ cm².

Find the width of the rectangle, giving your answer in the form $(m + n\sqrt{3})$ cm, where m and n are integers.

[4 marks]

QUESTION
PART
REFERENCE

Answer space for question 2

Area with horizontal dotted lines for writing the answer.



