

**ADVANCED SUBSIDIARY GCE UNIT
 MATHEMATICS (MEI)**

Decision Mathematics 1

PRINTED ANSWER BOOK

TUESDAY 22 JANUARY 2008

4771/01

Afternoon
 Time: 1 hour 30 minutes



Candidate
Forename

Candidate
Surname

Centre
Number

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Candidate
Number

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INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Write your answers in the spaces provided on the printed answer book. If extra paper is required use a 4 page answer booklet making sure that you label your work clearly.

FOR EXAMINER'S USE	
Qu.	Mark
1	
2	
3	
4	
5	
6	
TOTAL	

This document consists of 7 printed pages and 1 blank page.

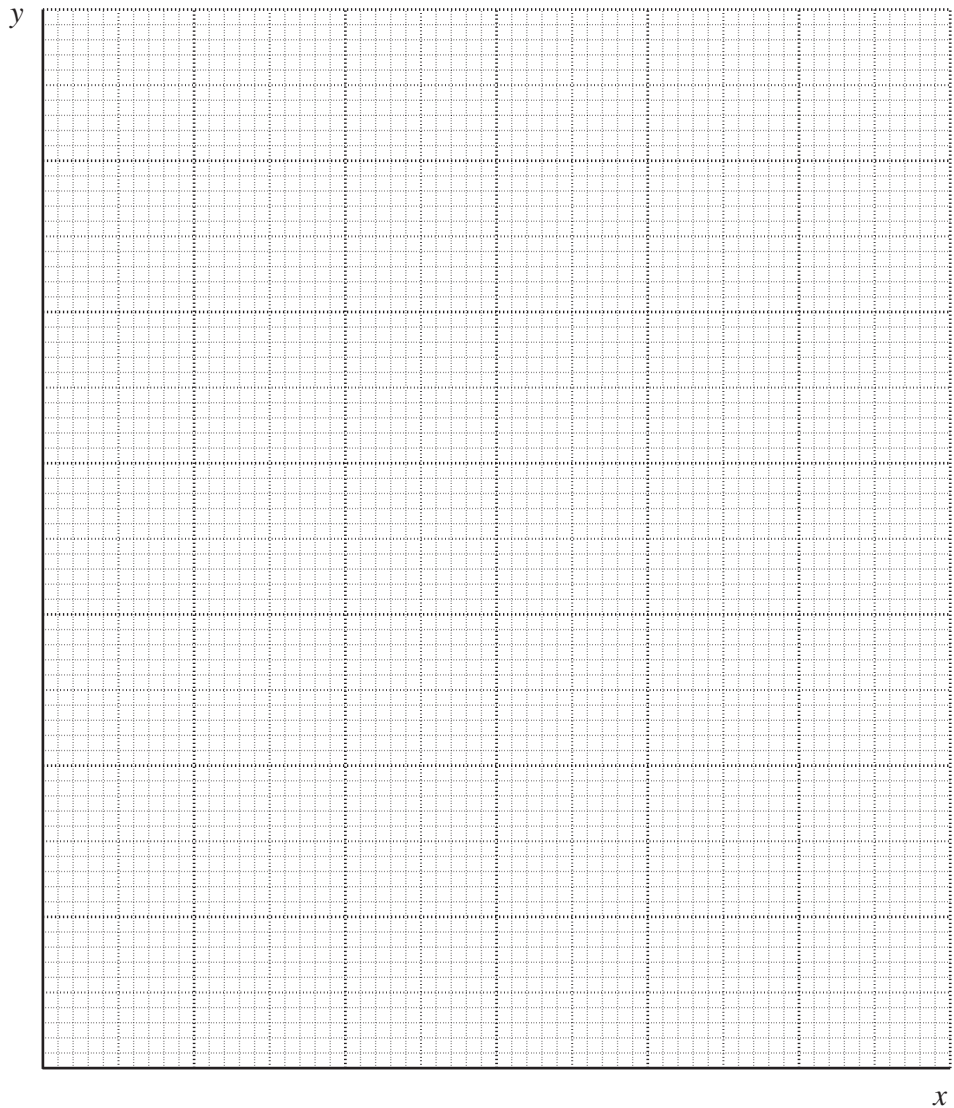
1 (i)

(ii)

(iii)

(iv)

2 (i)



(ii)

3 $y = 2008$

$$c = 2008/100 = 20$$

$$n = 2008 - 19 \times (2008/19) = 2008 - 19 \times (105) = 13$$

$$k =$$

$$i =$$

$$i =$$

$$i =$$

$$j =$$

$$j =$$

$$p =$$

$$m =$$

$$d =$$

So Easter Sunday, 2008 will be on

4 (i)

(ii)

(iii) Random numbers: 3 9 0 1 3 5 8 8 0 9 7

Eye colours

Parent 1	brown	brown	brown	blue	brown	green	blue	green	brown	brown
Parent 2	brown	blue	brown	blue	brown	blue	brown	green	brown	green
Offspring										

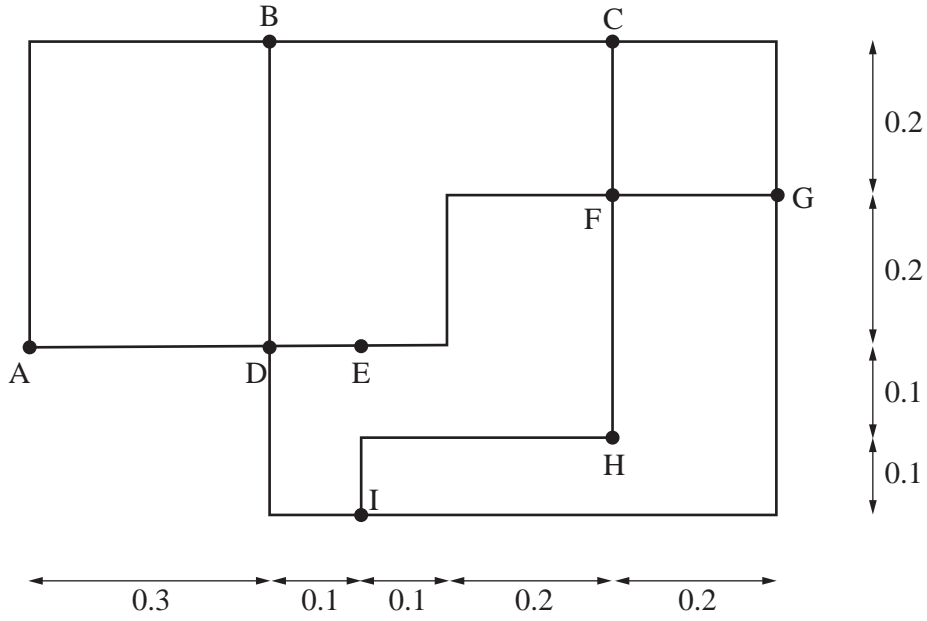
5 (i) & (ii)

(iii)

(iv)

(v)

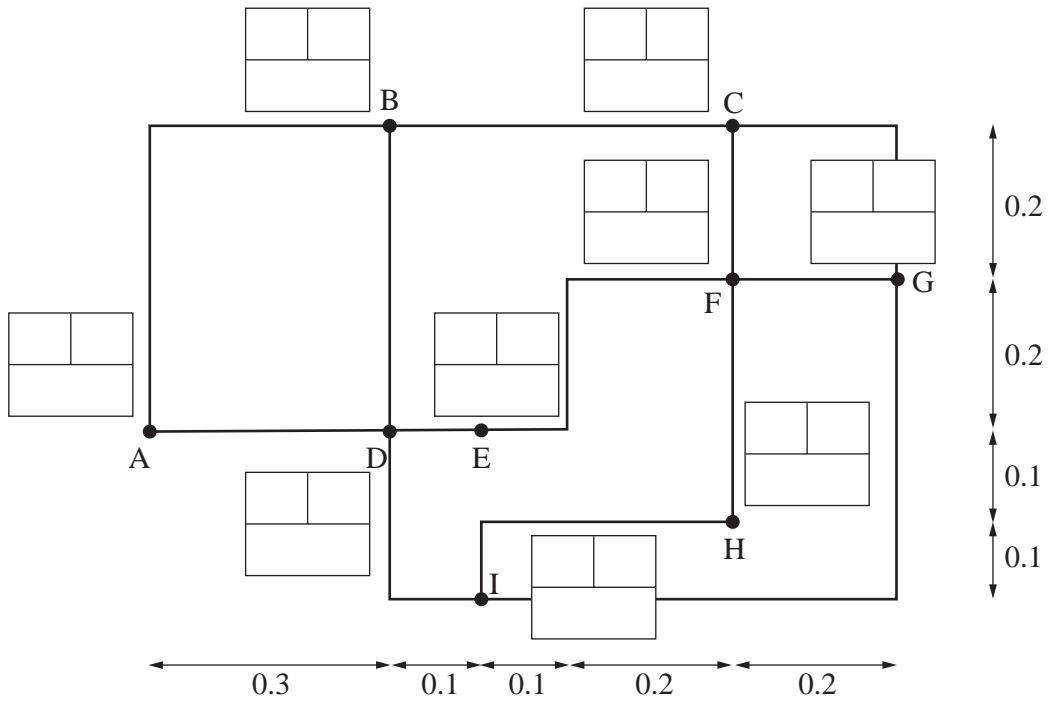
6 (i)



Total length of minimum connector:

(ii)

(iii)



Arcs used:

Total length of arcs used:

You may write on this page if required. Make sure you label your work clearly.