

ADVANCED SUBSIDIARY GCE

MATHEMATICS

Decision Mathematics 1

INSERT for Question 4

4736

**Wednesday 17 June 2009
Morning**

Duration: 1 hour 30 minutes



Candidate Forename		Candidate Surname	
Centre Number		Candidate Number	

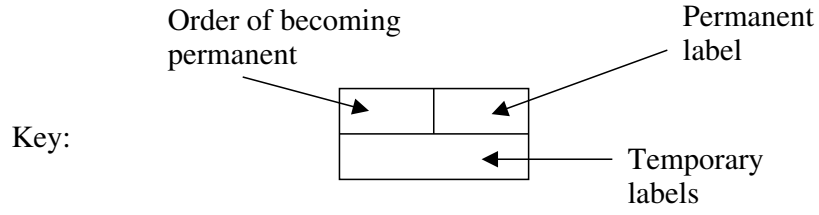
INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- This insert should be used to answer Question 4.
- Write your answers to Question 4 in the spaces provided in this insert, and attach it to your Answer Booklet.

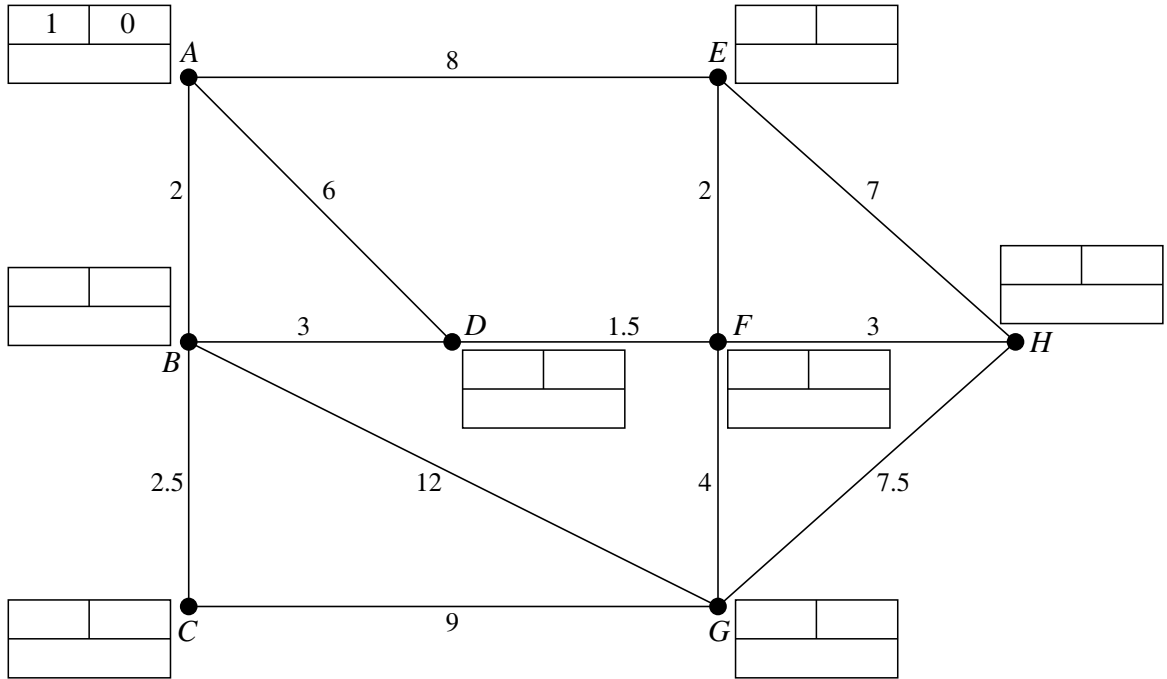
INFORMATION FOR CANDIDATES

- This document consists of 4 pages. Any blank pages are indicated.

4 (i)



Do not cross out your working values (temporary labels)



Route of shortest path from A to H =

Length of shortest path from A to H = miles

(ii)

(iii)

Length of shortest route = miles

(iv) Repeat arcs

Length of shortest route = miles

(v)

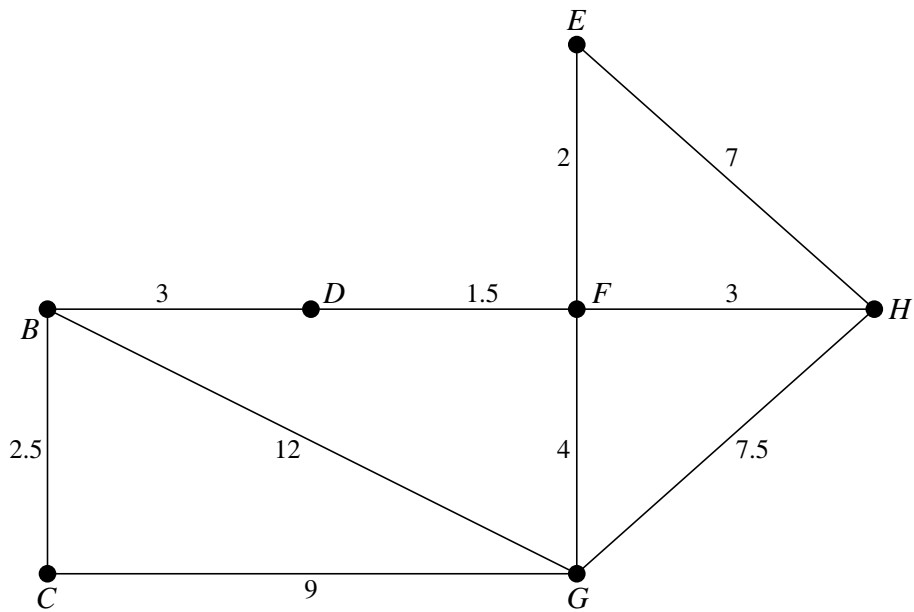
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(vi)

.....

Upper bound = miles

(vii)



Order of adding nodes to tree:

Total weight = miles

.....

.....

Lower bound = miles

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