

Free-Standing Mathematics Qualification  
June 2008  
Advanced Level



**USING & APPLYING DECISION MATHEMATICS 6994/2PM**  
**Unit 14**

**PRELIMINARY MATERIAL**

**DATA SHEET**

**To be issued to candidates between Monday 28 April 2008  
and Monday 5 May 2008**

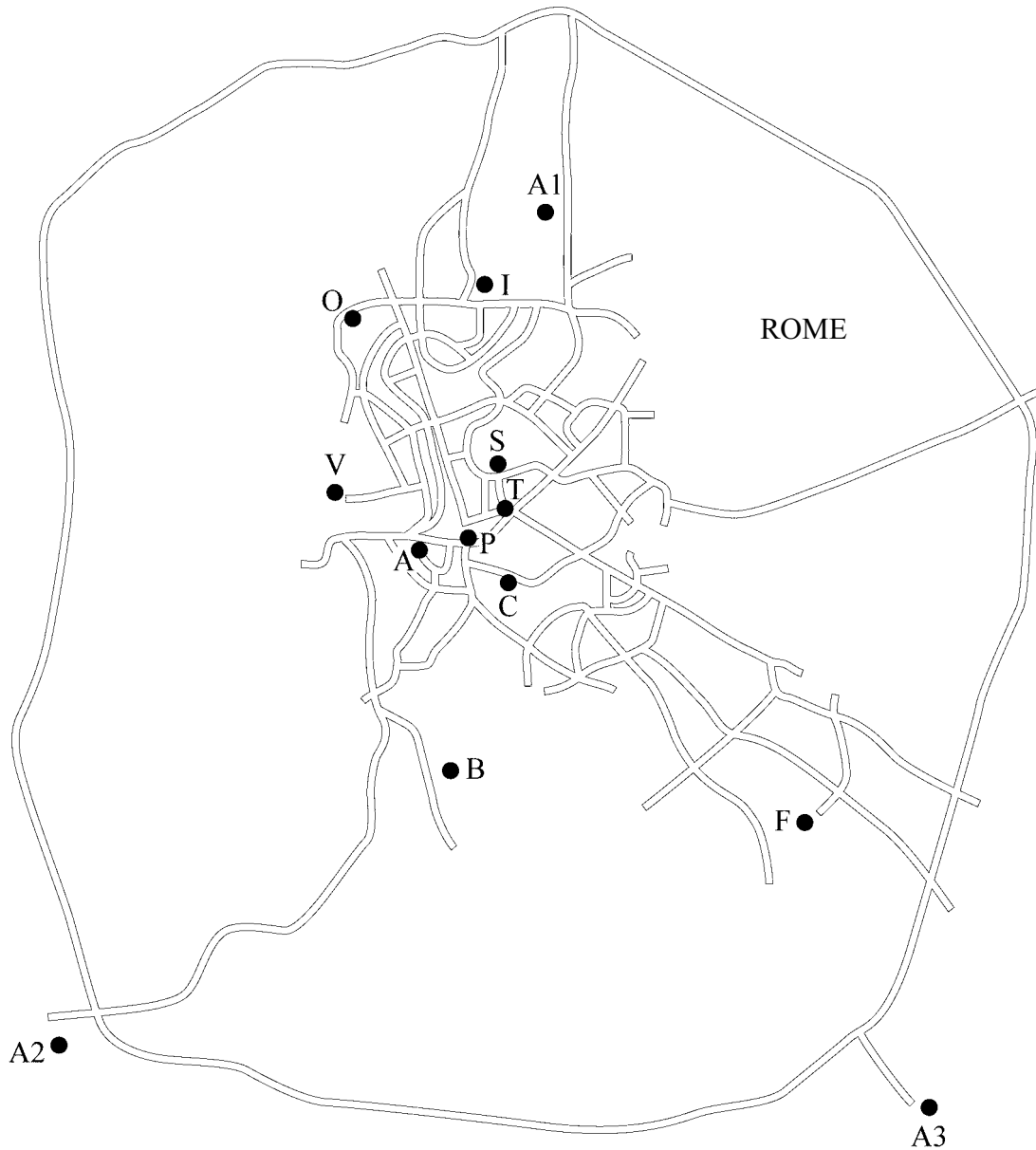
**REMINDER TO CANDIDATES**

YOU MUST **NOT** BRING THIS DATA SHEET  
WITH YOU WHEN YOU SIT THE EXAMINATION.  
A CLEAN COPY WILL BE MADE AVAILABLE.

## Rome

The map of Rome shows the locations of some of the main visitor attractions and the city's three airports.

The table shows the distances, in kilometres, between places.



### KEY

A1	Aeroporto dell'Urbe	I	Ippodroma
A2	Fiumicino Aeroporto	O	Olympic Stadium
A3	Ciampino Aeroporto	P	Pantheon
A	Castel San Angelo	S	Spanish Steps
B	Basilica	T	Trevi Fountain
C	Coliseum	V	Vatican
F	Film Studio		

	A1	A2	A3	A	B	C	F	I	O	P	S	T	V
A1	–	–	–	–	–	–	–	2.3	3.8	–	–	–	–
A2	–	–	19.5	–	12.7	–	–	–	–	–	–	–	16.6
A3	–	19.5	–	–	11.8	–	8.7	–	–	–	–	–	–
A	–	–	–	–	–	–	–	4.8	4.2	0.8	1.7	0.9	2.2
B	–	12.7	11.8	–	–	3.7	4.3	–	–	–	–	–	4.5
C	–	–	–	–	3.7	–	6.8	–	–	2.0	–	2.1	2.8
F	–	–	8.7	–	4.3	6.8	–	–	–	–	–	7.6	–
I	2.3	–	–	4.8	–	–	–	–	2.5	–	5.1	–	–
O	3.8	–	–	4.2	–	–	–	2.5	–	–	–	–	4.0
P	–	–	–	0.8	–	2.0	–	–	–	–	–	1.2	1.9
S	–	–	–	1.7	–	–	–	5.1	–	–	–	1.5	–
T	–	–	–	0.9	–	2.1	7.6	–	–	1.2	1.5	–	–
V	–	16.6	–	2.2	4.5	2.8	–	–	4.0	1.9	–	–	–

**Turn over**

**Turn over ►**

**ICT system**

A consultancy company has been hired to assess the work involved and the time frame for setting up an ICT system for a new school. The company lists the following activities that are required.

- Buy hardware
- Buy software
- Decide on new computer system
- Install cabling for network
- Install data
- Install hardware
- Install software
- Prepare ICT control room
- Prepare staff/pupil data
- Test system
- Train ICT support staff
- Train teaching staff

### Mileage chart

The table shows the distances, in miles, between places in England.

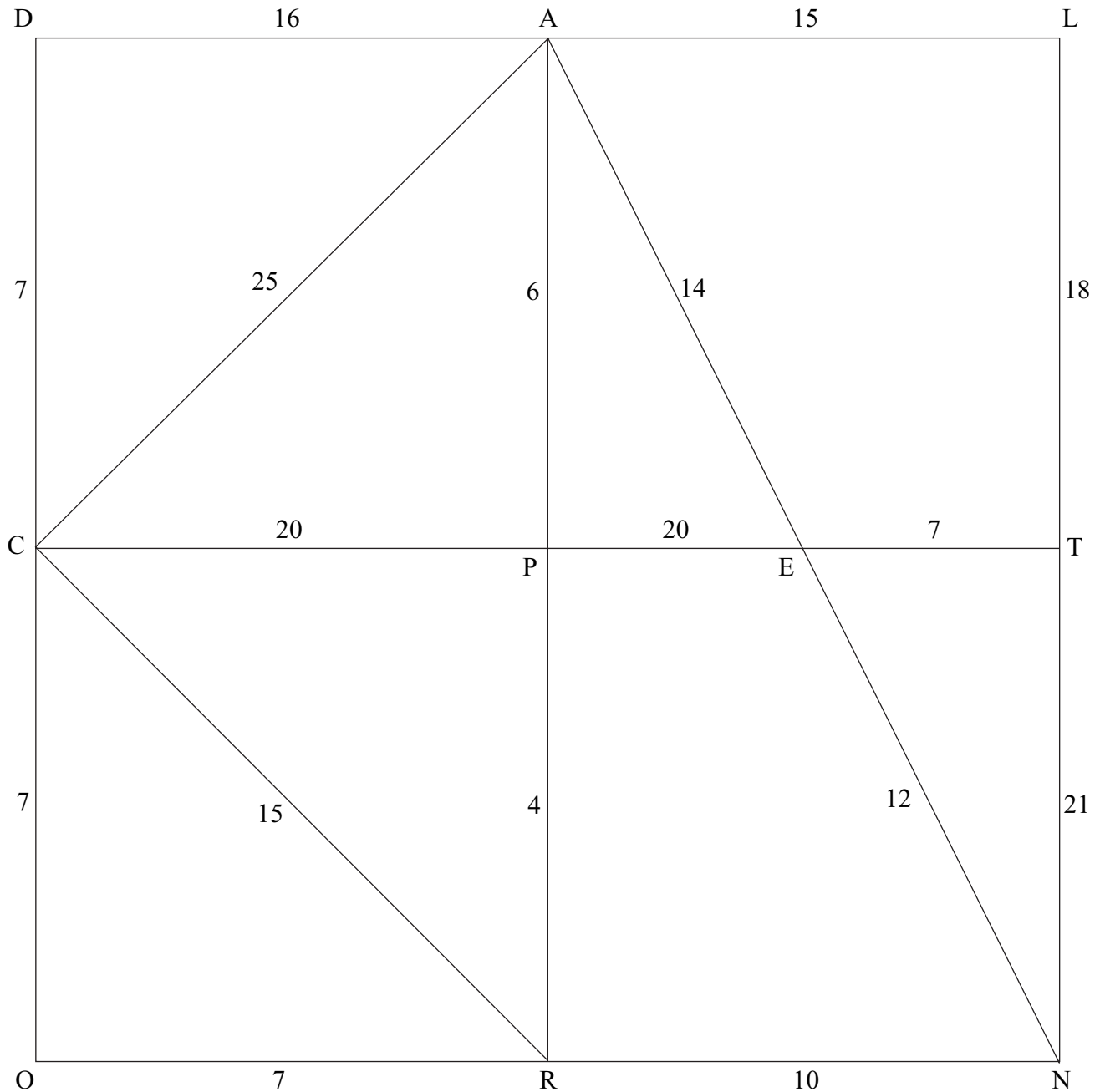
	Birmingham	Brighton	Leeds	Lincoln	Liverpool	Maidstone	Manchester	Middlesbrough	Newcastle	Northampton	Norwich	Nottingham
Birmingham												
Brighton	171											
Leeds	121	257										
Lincoln	89	216	72									
Liverpool	102	277	74	140								
Maidstone	168	50	233	181	263							
Manchester	89	264	44	85	35	251						
Middlesbrough	177	318	63	123	145	283	115					
Newcastle	208	349	94	154	176	314	146	38				
Northampton	55	132	133	92	150	116	137	188	219			
Norwich	159	171	173	104	241	135	186	223	254	116		
Nottingham	54	195	74	38	102	179	71	129	160	66	119	
Sheffield	76	233	36	47	79	207	39	100	131	103	147	44



**Road network**

The network shows a plan of roads in a town. The number on each edge represents the time taken, in minutes, to travel directly between two places.

Note: the direct route may not be the quickest way to travel between two places.



**END OF DATA**

**There are no data printed on this page**

**There are no data printed on this page**