



Free-Standing Mathematics Qualification
Advanced Level
June 2013

Using and Applying Decision Mathematics

6994/2PM

Unit 14

Preliminary Material

Data Sheet

To be opened and issued to candidates between
Tuesday 30 April 2013 and Tuesday 7 May 2013

REMINDER TO CANDIDATES

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

Flat construction

The shell of a flat has been constructed. The inside is to be completed and some of the following activities need to be carried out.

- Artexing
- Cleaning
- Electrics (first fix)
- Electrics (second fix)
- Fitting kitchen units
- Fitting bathroom units
- Joinery (first fix)
- Joinery (second fix)
- Painting
- Plasterboarding
- Plastering
- Plumbing (first fix)
- Plumbing (second fix)
- Studding
- Tiling bathroom
- Tiling kitchen
- Wallpapering

Wind farms



The largest offshore wind farm in Europe is situated off the coast of Kent.

Turbines at this wind farm are arranged in rows. The turbines within each row are 500 metres apart. The rows are 800 metres apart.

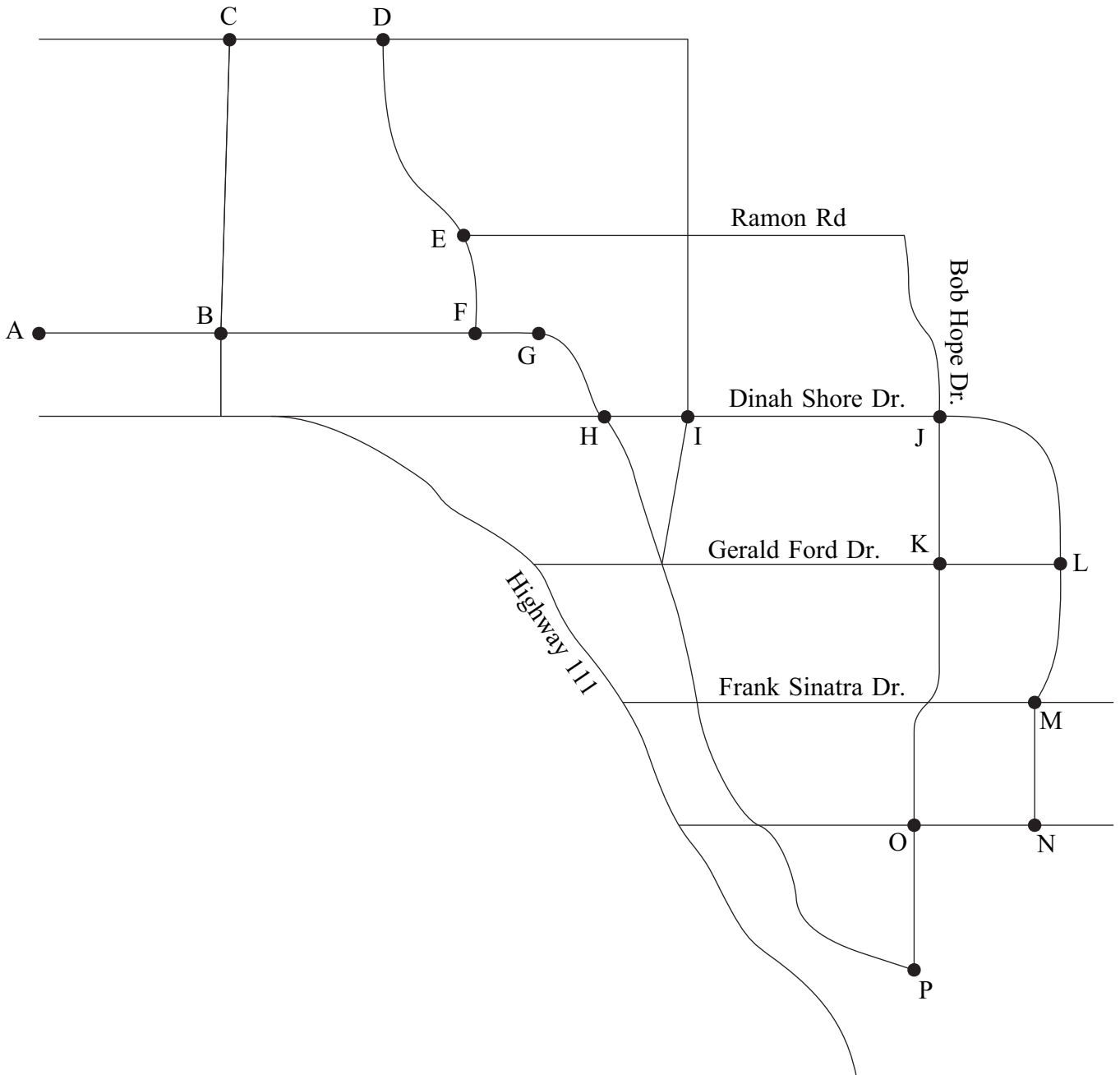
The average water depth is 25 metres.

Palm Springs

The diagram shows a network of roads in Palm Springs and the locations of houses of some celebrities who live in the town.

The houses are situated at vertices labelled A, B, C, ..., P.

The table on page 4 shows the distances, in kilometres, between pairs of houses.



These data continue on the next page

Turn over ►

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
A	–	1	4.2	5.7	4	3.6	4.5	5.5	6.8	10.6	10.6	11.7	12	12.7	11.5	11.5
B		–	3.2	4.7	3	2.6	3.5	4.5	5.8	9.6	9.6	10.7	11	11.7	10.5	10.5
C			–	1.5	4.5	5.2	6.1	7.1	8.4	12.2	13.5	14.6	14.9	15.6	14.4	14.4
D				–	3	3.7	4.6	5.6	6.9	10.7	12	13.1	13.4	14.1	12.9	12.9
E					–	0.7	1.6	2.6	3.9	7.7	9	10.1	10.4	11.1	9.9	9.9
F						–	0.9	1.9	3.2	7	8.3	9.4	9.7	10.4	9.2	9.2
G							–	1	2.3	6.1	7.4	8.5	8.8	9.5	8.3	8.3
H								–	1.3	5.1	6.4	7.5	7.8	8.5	7.3	7.3
I									–	3.8	5.1	6.2	6.5	7.2	6	6
J										–	1.3	2.4	3.6	4.7	4	5.2
K											–	1.1	2.3	3.4	2.7	3.9
L												–	1.2	2.3	3.5	4.7
M													–	1.1	2.3	3.5
N														–	1.2	2.4
O															–	1.2
P																–

END OF DATA SHEET

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