Free-Standing Mathematics Qualification June 2007 Advanced Level

WORKING WITH ALGEBRAIC AND GRAPHICAL TECHNIQUES Unit 11

6991/2PM



PRELIMINARY MATERIAL

DATA SHEET

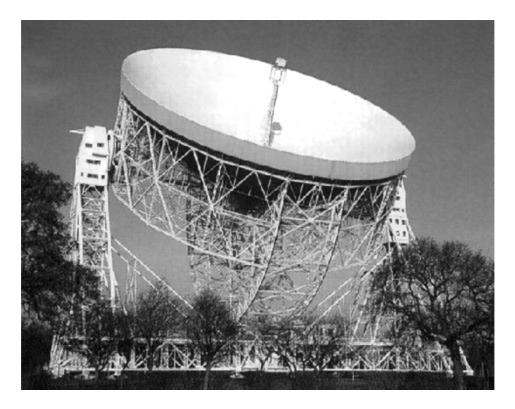
To be issued to candidates between Wednesday 2 May and Wednesday 9 May 2007

REMINDER TO CANDIDATES

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

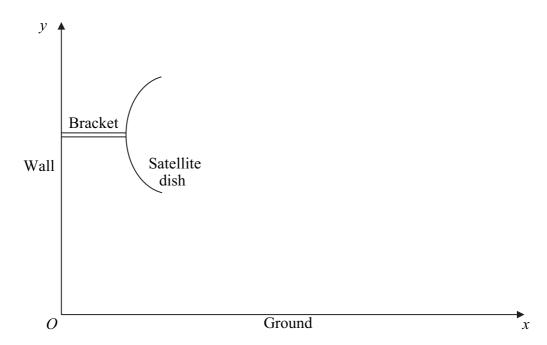
Receivers

The Lovell telescope at Jodrell Bank is used to receive radio waves from the universe. It can move in three dimensions.



The diameter of the bowl is 76 metres. The height of the axis of rotation of the bowl is 50 metres.

A TV satellite dish is fastened to a wall using a bracket.



Height

The average heights of boys aged 0 to 20 years were recorded.

Age (years)	0	2	4	6	8	10	12	14	16	18	20
Height (cm)	56	86	100	115	127	137	147	159	169	176	178

Population

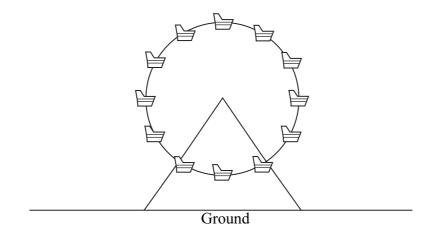
Every ten years a census is taken to estimate the population of England and Wales.

The results for some years are shown.

Year	1911	1921	1931	1951	1961	1971	1991	2001
Population (millions)	36.1	37.9	39.9	43.7	46.1	48.7	49.9	52.0

Fairground

A fairground ride consists of seats fastened onto a big wheel.



END OF DATA SHEET

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Lovell telescope: I. Morison, Jodrell Bank Observatory.

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