



Free-Standing Mathematics Qualification
Advanced Level
June 2010

Working with Algebraic and Graphical Techniques **6991/2PM**

Unit 11

Preliminary Material

Data Sheet

To be opened and issued to candidates between
Wednesday 12 May 2010 and Wednesday 19 May 2010

REMINDER TO CANDIDATES

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

Income

When selling items, it is often found that the higher the selling price, $\pounds x$, the lower the demand, d .

The income, $\pounds I$, is found by multiplying the selling price by the demand.

Disease

The inhabitants of a small town are suffering from a disease.

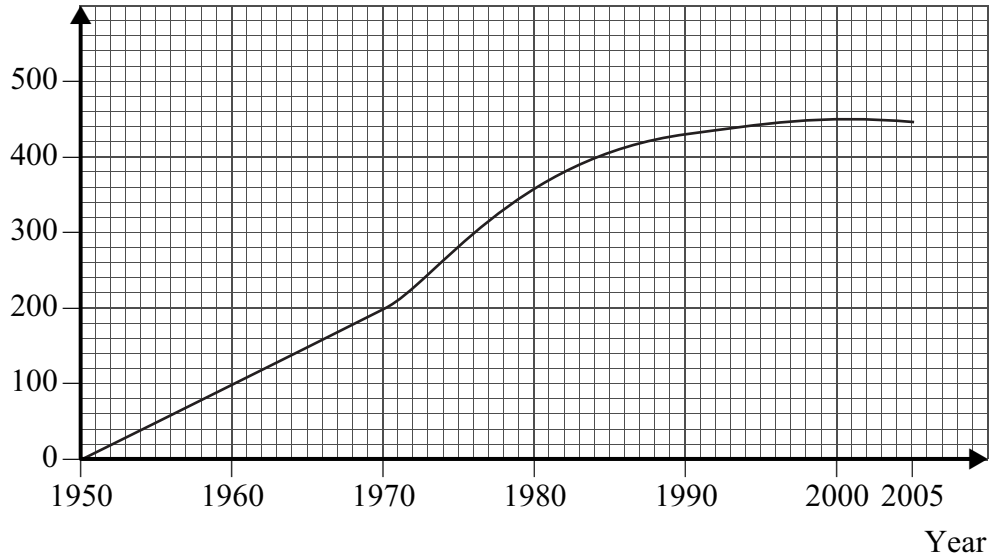
The number of infected people is recorded, but only after the disease has already infected some of the inhabitants.

Time (days)	0	10	20	30	40
Number who have been infected	100	260	340	370	395

Nuclear reactors

The number of nuclear reactors worldwide is shown on the graph.

Number of
nuclear
reactors



Cinema admissions

The number of cinema admissions in the United Kingdom is shown for some years.

Year	1930	1935	1940	1945	1950	1955	1960	1965
Cinema admissions (millions)	1000	912	1027	1585	1396	1182	280	167

Year	1970	1975	1980	1985	1990	1995	2000	2005
Cinema admissions (millions)	120	99	81	72	96	116	144	165

END OF DATA SHEET

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