AQA

Free-Standing Mathematics Qualification
Advanced Level
June 2011

Working with Algebraic   6991/2PM
and Graphical Techniques
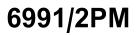
Unit 11

Preliminary Material

Data Sheet

**To be opened and issued to candidates between
Friday 6 May 2011 and Friday 13 May 2011**

REMINDER TO CANDIDATES

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

6991/2PM

Wembley stadium

The roof of Wembley stadium is supported by an arch that has a span of 315 metres. The arch has a maximum vertical height of 133 metres above ground level.

Waste recycling

A council records the amount of household waste that is recycled each year.
The results for some years are shown in the table below.

Year	1998	2000	2002	2004	2006	2008
Amount (tonnes)	820	890	1090	1520	2300	3520

Computer speeds

The average number of operations performed per second (speed) by computer processors is recorded each year. The results for some years are shown in the table below.

Year	1972	1982	1993	2003	2007
Speed	3.5×10^3	1.34×10^5	5.5×10^6	8.4×10^7	4×10^8

Circadian rhythms

Circadian rhythms are 24-hour internally controlled biological changes that occur in plants and animals. In the human body, these changes include fluctuations in temperature, enzyme levels, behaviour and heart rate over a period of one day.

END OF DATA SHEET