

Free-Standing Mathematics Qualification
June 2005
Advanced Level



**WORKING WITH ALGEBRAIC AND
GRAPHICAL TECHNIQUES
Unit 11**

6991/2PM

PRELIMINARY MATERIAL

DATA SHEET

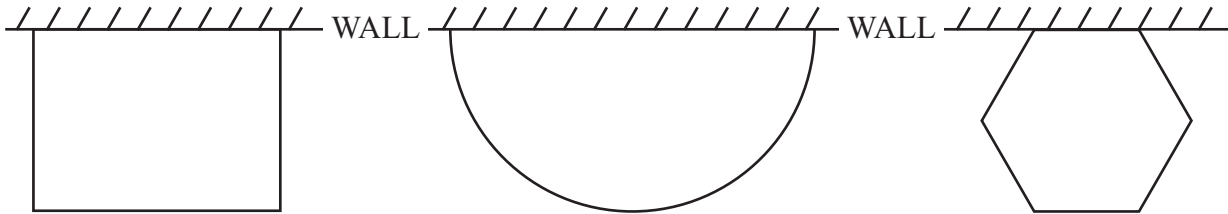
**To be issued to candidates between Wednesday 4 May and
Wednesday 11 May 2005**

REMINDER TO CANDIDATES

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

Fencing

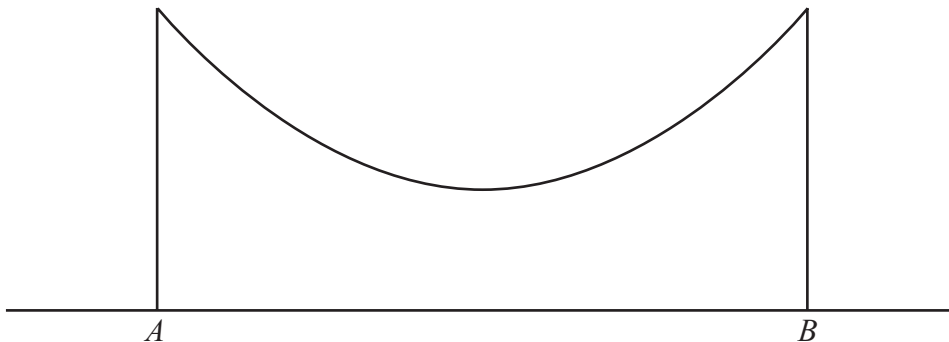
A farmer has some fencing to create an enclosure against a wall in which to keep some sheep. One side of the enclosure is formed by the wall. The farmer has several different designs to choose from.

**Cable**

A bridge is to be built between two points, A and B .

A and B are 40 m apart and on horizontal ground.

A first stage is to suspend a steel cable between two points at the same height vertically above A and B .



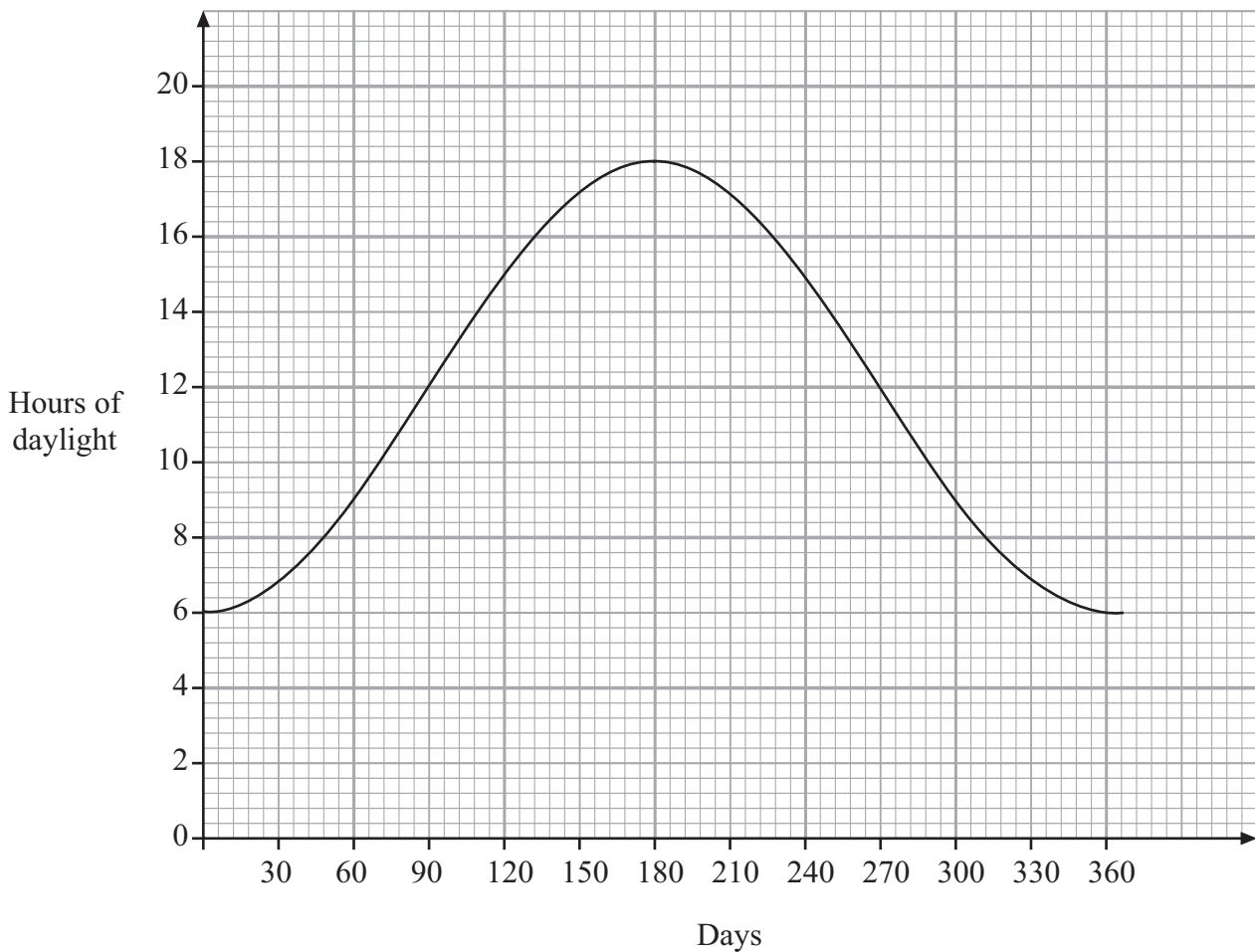
Temperature

The temperature of a hot drink is recorded as it cools.

Time (mins)	0	5	10	15	20	25	30
Temperature (°C)	90	70	54.6	42.5	33.1	25.8	20

Daylight

The graph shows how the number of hours of daylight in Newcastle varies throughout the year.



END OF DATA SHEET

THERE IS NO TEXT PRINTED ON THIS PAGE