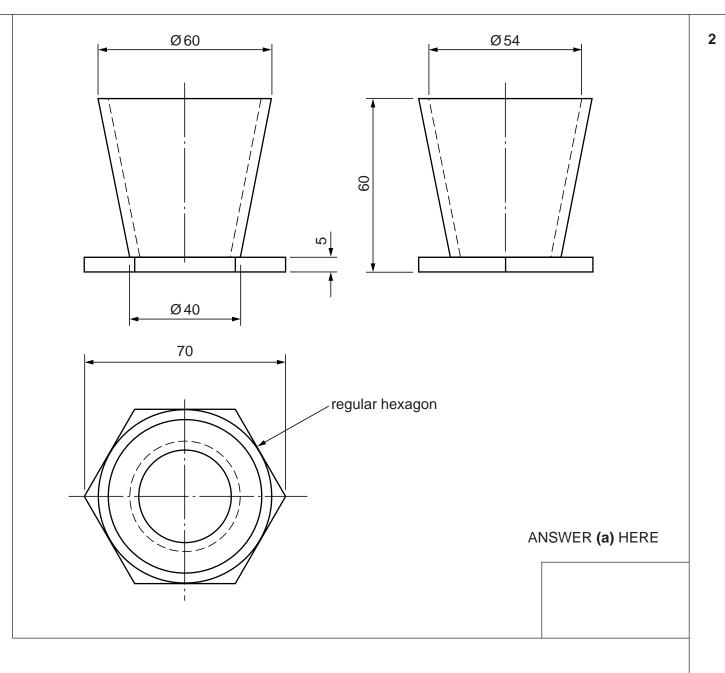
Orthographic views of a mug are given to the right. The mug is made from transparent material.

1

- (a) In the box provided, draw the symbol for the angle of projection used for the orthographic drawing.
 [3]
- (b) Draw a full size **isometric** view of the mug. [21]
- (c) Use pencil shading to show that the mug is made from transparent material. [6]

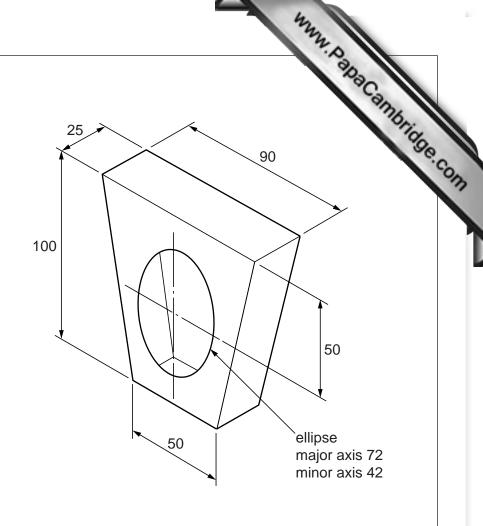


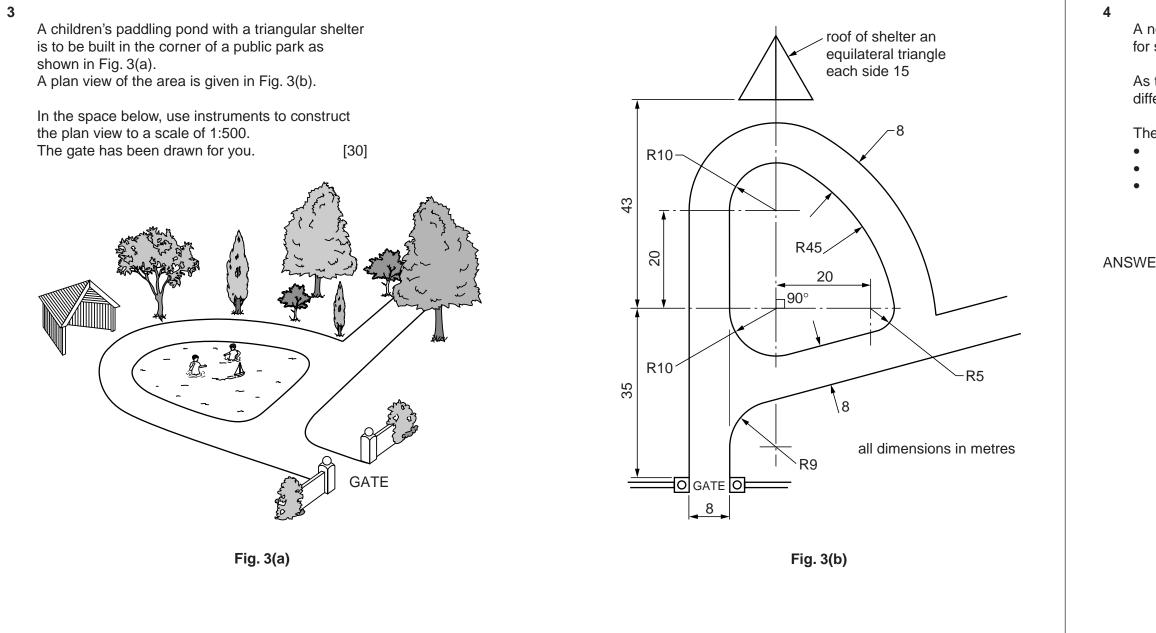
ANSWER (b) AND (c) HERE

International General Certificate of Secondary Education		TIME 1 hour		For Examiner's
CAMBRIDGE INTERNATIONAL EXAMINATIONS	0445/02	Print your surname, other names, Centre number and candidate number in the spaces provided.	Candidate's Surname	use
DESIGN AND TECHNOLOGY	0445/02 0446/02	Answer any two questions.	Other Names	
DESIGN AND COMMUNICATION PAPER 2 Communication	0440/02	Draw your answers in the spaces provided on the question paper.	Centre Number	
OCTOBER/NOVEMBER SESSION 2003		All dimensions are in millimetres.	Candidate's Number	
© CIE 2003	1 hour SPA (AT/TC) S38142/2	TI ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	[Turn over	

A thin card package for handkerchiefs is shown in the pictorial view. There is an elliptical hole in the front of the package. The package opens at the top.

Draw a full size, one-piece development of the package. Your drawing **must** include all gluing and other flaps and an accurate construction of the elliptical hole. [30]





ANSWER (b) HERE

GATE	

A notice board is needed for a sports park, directing people to areas for swimming, tennis and sailing.

In the spaces indicated:

- (a) sketch freehand two ideas for each symbol;
- www.PapaCambridge.com (b) select your best ideas and then draw your chosen symbols in the appropriate squares on the view of the notice board below. [15]

As the notice board is to be read by people who speak a number of different languages, a symbol is needed to represent **each** activity.

- The symbols must be:
- simple;
- easy to see from a distance; • painted in black on a white background.

ANSWER (a) HERE

