plan of the OCEAN HOSPITAL is given to the right. Given below is an 2 An electricity-producing company called **ENEDEX** is to place an advertisement in a DRAW YOUR DESIGN SKETCHES HERE ete view of a notice board to be placed at the entrance to the hospital in the newspaper giving details of its sources of energy in 2003. on indicated on the sketch. medical out You are required to complete the advertisement started at the bottom of the page patients wards Using instruments, complete the view of the notice board below by: (a) drawing a logo for the hospital, made up from the two letters O and H, in the (a) using any accurate method to draw an enlarged view of the trademark of the square indicated. Marks will be given for design sketches. company in the space indicated. The trademark consists of an ellipse with a symbol in it as shown in the smaller view given. The centre lines and the Cark (b) drawing a diagram showing the layout of the hospital which will help visitors positions of the top, bottom and sides of the ellipse are given. surgical find their way about. Include arrows showing the way round the traffic island to wards the car park. (b) drawing a suitable graph, chart or diagram to illustrate the following figures: notice board **Percentage of Total** (c) printing CAR PARK and MEDICAL WARDS in appropriate positions on your **Source of Energy** 1 here 32.5 Water Oil 40 road wayin Coal 15 road DRAW YOUR DESIGN SKETCHES FOR (a) HERE Wind 12.5 [11] (c) using suitably positioned symbols on your illustration to represent each of the four sources of energy. Marks will be given for design sketches of the symbols. Do not colour your answer. trademark ANSWER (a) HERE ANSWER (b) AND (c) HEF of company ANSWER (b) AND (c) HERE **DRAW LOGO** IN THIS SQUARE **International General Certificate of Secondary Education TIME** 1 hour Examiner's UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Candidate's Surname Write your surname, other names, Centre number and candidate number in the spaces provided. 0445/02 **DESIGN AND TECHNOLOGY** Answer any **two** questions. Other Names . 0446/02 **DESIGN AND COMMUNICATION** Draw your answers in the spaces provided on the question paper. Centre Number . October/November 2004 Paper 2 Communication Candidate's Number All dimensions are in millimetres. 1 hour The number of marks is given in brackets [] at the end of each question or part question. [Turn over © UCLES 2004 SP (SJF3098/CG) S60735/4

basket is shown in the sketch. An incomplete plan of the basket, drawn le of 1:10 is given below.

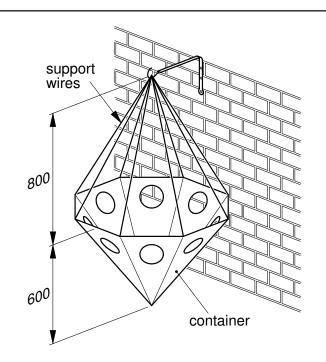
Give the geometrical name for the container of the basket.

(b) Project a front view of the basket, including the support wires, above the given plan. Do **not** draw the holes in the basket. [8]

- (c) Use a geometrical method to find the true length of one of the support wires and print your answer in the box provided. [4]
- (d) The container of the hanging basket is made of eight thin panels. Use a geometrical construction to draw the true shape of **one** of the panels. [4]
- (e) There is a 300 mm diameter hole in each panel. The centre of the hole is at the intersection of the lines which bisect the three angles of the triangle.

 Use a geometrical construction to draw the hole in **one only** of the panels on the given plan.

 [11]



TRUE LENGTH OF SUPPORT WIRE

A wooden base is needed to hold a salt, a pepper and a mustard pot. Orthographic views of the pots are given to the right. The salt and pepper pots are the same size and shape.

In the positions indicated:

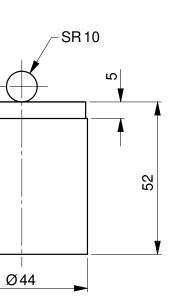
- (a) design a suitable wooden base to hold the three pots; [4]
- (b) sketch freehand, approximately full size, an isometric view of your chosen design for the base with the three pots in it:
- (c) colour and shade:
 - (i) the base to show that it is made from wood;
 - (ii) the mustard pot only to show that it is made from shiny plastics. [3]

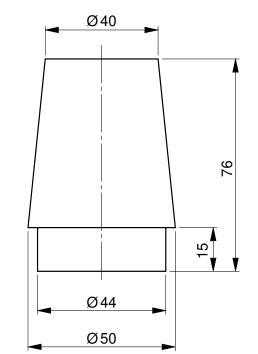
ANSWER (a) HERE

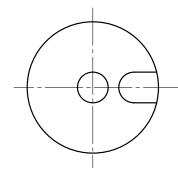


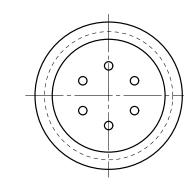
SALT / PEPPER



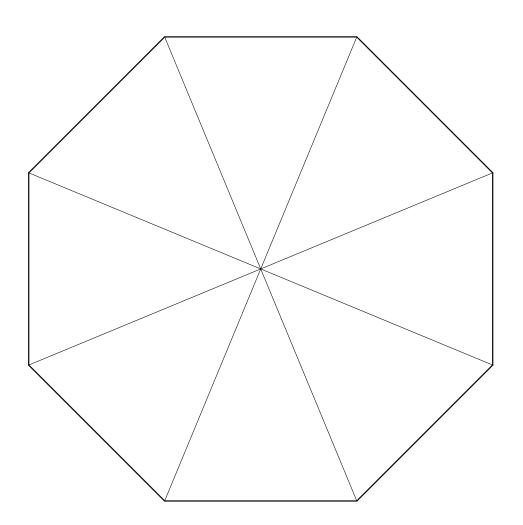








ANSWER (b) HERE



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