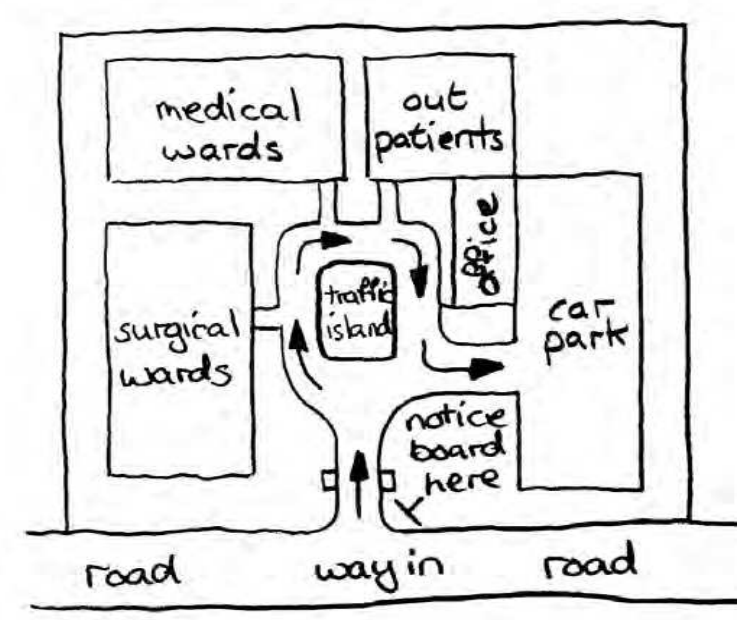


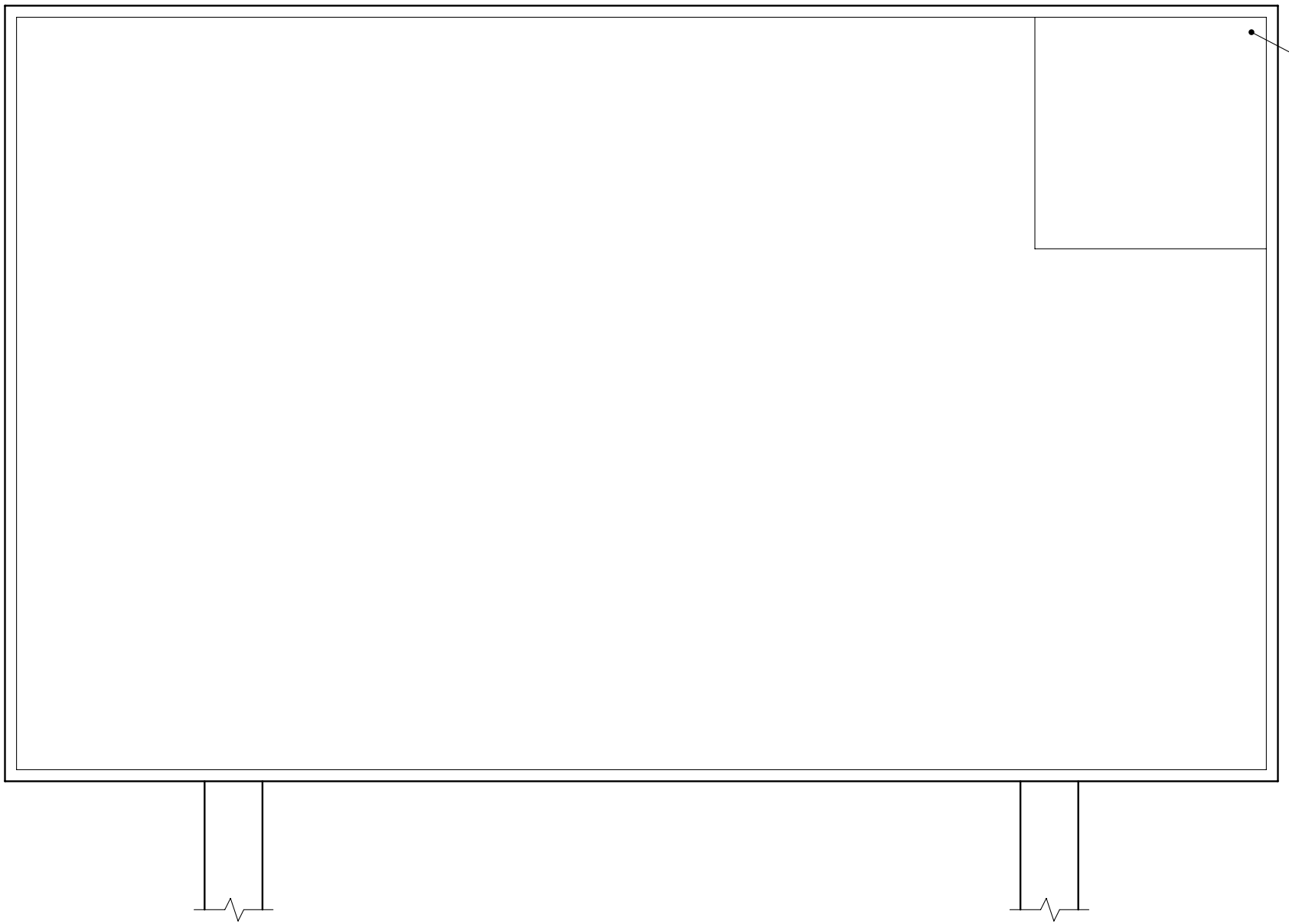
1 The plan of the *OCEAN HOSPITAL* is given to the right. Given below is an incomplete view of a notice board to be placed at the entrance to the hospital in the position indicated on the sketch.

- 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 square indicated. Marks will be given for design sketches. [10]
 - (b) drawing a diagram showing the layout of the hospital which will help visitors find their way about. Include arrows showing the way round the traffic island to the car park. [16]
 - (c) printing **CAR PARK** and **MEDICAL WARDS** in appropriate positions on your diagram. [4]



DRAW YOUR DESIGN SKETCHES FOR (a) HERE

ANSWER (b) AND (c) HERE



DRAW LOGO IN THIS SQUARE

DRAW YOUR DESIGN SKETCHES HERE

2 An electricity-producing company called **ENEDEX** is to place an advertisement in a newspaper giving details of its sources of energy in 2003.

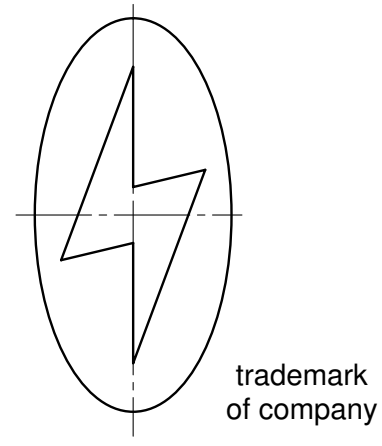
You are required to complete the advertisement started at the bottom of the page by:

- (a) using any accurate method to draw an enlarged view of the trademark of the 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 positions of the top, bottom and sides of the ellipse are given. [13]
- (b) drawing a suitable graph, chart or diagram to illustrate the following figures:

Source of Energy	Percentage of Total
Water	32.5
Oil	40
Coal	15
Wind	12.5

- (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. [6]

Do not colour your answer.



ANSWER (a) HERE

ANSWER (b) AND (c) HERE

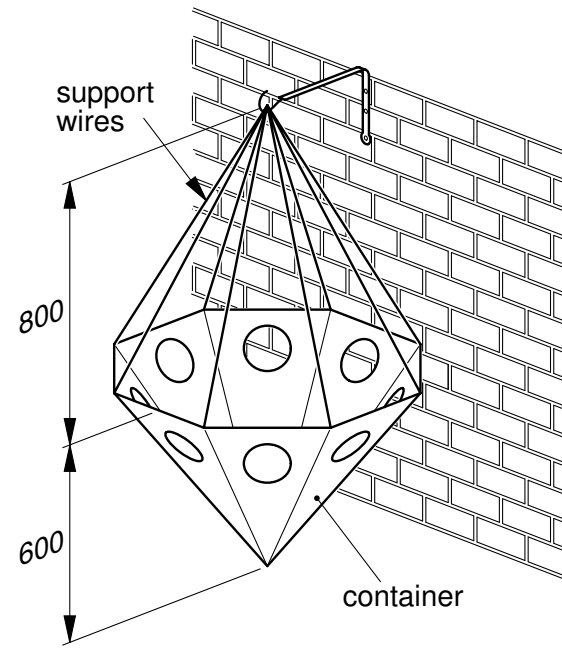


[Turn over

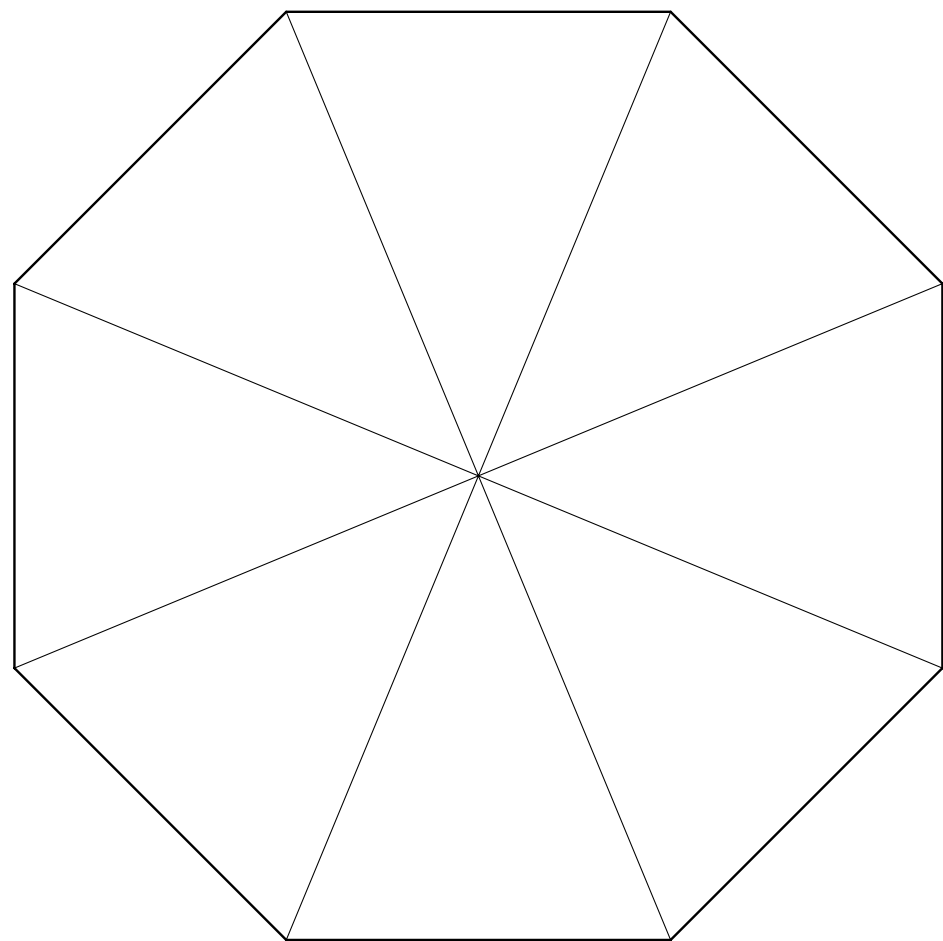
3

A hanging basket is shown in the sketch. An incomplete plan of the basket, drawn at a scale of 1:10 is given below.

- (a) Give the geometrical name for the container of the basket. [3]
- (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



- 4 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; [20]
- (c) colour and shade:
 - (i) the base to show that it is made from wood; [3]
 - (ii) the mustard pot only to show that it is made from shiny plastics. [3]

ANSWER (a) HERE

ANSWER (b) HERE

MUSTARD

SALT / PEPPER

