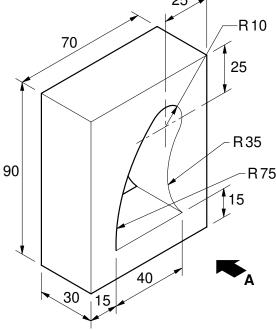
I parts of the question before starting to draw. A newspaper advertisement for a Do-it-Yourself store uses symbols to inform customers of the services offered. The symbol for Free Designing and Planning is given to the right. Three other symbols are needed for: If to faclamp for holding sheet metal onto a bench while it is being used, is shown to the right. Orthographic views of the three parts A, B and C are given below. Garden Centre; Tools for Sale and Hire; Draw full size in third angle orthographic projection, the following views of the **assembled** tool: Carry to the Car Service. (a) the view FV. Some of part A has been drawn for you. Include in your answer an alternative design for In the spaces indicated: the head of the screw, part C, that will make it easier to tighten. [9] [21] (a) sketch two different ideas for each of the three symbols required; [15] [15] Part **B** is to be drawn in the horizontal position with the bottom of screw **C** touching part **A**; (b) draw accurately your chosen idea for each symbol. (b) a plan in projection with (a). Include hidden detail in both views. ANSWER PART (a) HERE Do not colour your answer. Dimensions not given are left for you to decide. Part A Part C Part **B** is attached to part **A** with a 4 dia round head rivet through hole H Head Hole H Ø4 ¬ 125 **FREE DESIGNING AND PLANNING** __10__ 40 ANSWER PART (b) HERE **GARDEN CARRY TO THE TOOLS FOR SALE CENTRE AND HIRE CAR SERVICE** View FV For Examiner's **International General Certificate of Secondary Education TIME** 1 hour **CAMBRIDGE INTERNATIONAL EXAMINATIONS** Print your surname, other names, Centre number and candidate number in the spaces provided. Candidate's Surname. 0445/2 **DESIGN AND TECHNOLOGY** Answer any **two** questions. PAPER 2 Communication Draw your answer in the spaces provided on the question paper. Centre Number.. OCTOBER/NOVEMBER SESSION 2002 All dimensions are in millimetres. Candidate's Number. © CIE 2002 SP (NH/CG) S13062/3 The number of marks is given in brackets [] at the end of each question or part question. [Turn over

age is needed for a piece of delicate sware. The package is to consist of a block of kpanded polystyrene with a hole into which the glassware fits, contained in a box made from thin card. The polystyrene block must fit tightly in the

A sketch of the polystyrene block is given to the



In the positions indicated:

- (a) complete the front view of the polystyrene block looking in the direction of the arrow A. Geometrical constructions must be used for the outline of the hole;
- (b) draw, full size, a one piece development of the box. Include in the development:
 - (i) all gluing and other flaps;
 - (ii) a regular octagonal hole, centrally placed in the front of the container through which the glassware can be seen. The octagon is to be 60mm across the flats.

-R75

VIEW A

ANSWER PART (a) HERE

polystyrene block below.

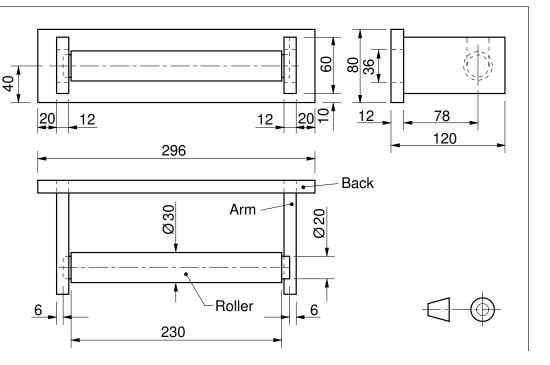
Construct the outline of the hole correctly

positioned in the front view A of the

ANSWER PART (b) IN THE SPACE BELOW

An idea for a wooden kitchen-roll holder is shown in the orthographic views to the right.

- In the positions indicated:
- (a) sketch modifications to the given shape of the parts of the kitchen-roll holder that would make it easier to use and more attractive to look at;
- (b) (i) draw freehand, approximately half full size, an exploded pictorial view of the kitchen-roll holder showing how the parts are assembled. Include your chosen modifications for (a) in your drawing;
 - (ii) use colour and shading to show that the kitchen-roll holder is made from wood. [4]



ANSWER PART (a) HERE

ANSWER PART (b)(i) AND (ii) HERE