Part A DESIGN AND TECHNOLOGY International General Certificate of Secondary Education © CIE 2002 PAPER 2 Communication **CAMBRIDGE INTERNATIONAL EXAMINATIONS** (a) the view FV. Some of part A has been drawn for you. Include in your answer an alternative design for the head of the screw, part C, that will make it easier to tighten.
Part B is to be drawn in the horizontal position with the bottom of screw C touching part A;
(b) a plan in projection with (a).
Include hidden detail in both views.
Do not colour your answer. Dimensions not given are left for you to decide. Part of a clamp 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. Read all parts of the question before starting to draw. Hole H Ø 4 70 36 **OCTOBER/NOVEMBER SESSION 2002** Top of Bench 62 30 10 12 5 10 40 1 hour SP (NH/CG) S13062/3 0445/2 View FV $\boldsymbol{\varpi}$ TIME Draw your answer in the spaces provided on the question paper. Part **B** is attached to part **A** with a 4 dia round head rivet through hole H The number of marks is given in brackets $[\]$ at the end of each question or part question. All dimensions are in millimetres. Answer any two questions. Print your surname, other names, Centre number and candidate number in the spaces provided. 125 [15] [15] 1 hour Hole H Ø4 40 **≤**8 R7 Part C ဂ **№** Head ₽ F N ANSWER PART (a) HERE ANSWER PART (b) HERE In the spaces indicated:

(a) sketch **two** different ideas for each of the three symbols required;

(b) draw accurately your chosen idea for each symbol. 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: Garden Centre; Tools for Sale and Hire; Carry to the Car Service. **GARDEN** CENTRE Candidate's Surname..... Centre Number..... Candidate's Number..... TOOLS FOR SALE **AND HIRE** [9] [21] FREE **AND PLANNING CARRY TO THE** CAR SERVICE **DESIGNING** [Turn over For Examiner's use



