

2 An exploded pictorial view of a castor for a supermarket trolley is shown to the right. The nylon wheel rotates on a Ø10 shaft that is held in place in the castor body by a roll pin. The swivel sits in a Ø30 recess in the castor body and is secured by a M10 HEX HD bolt 25 long.

- (a) Draw to a scale of 1:1 in either first or third angle orthographic projection, the following views of the assembled parts:
 - (i) a sectional view taken through the centre of the castor body looking in the direction of the arrow **S**; [12]
 - (ii) the end view looking in the direction of the arrow **EV**;

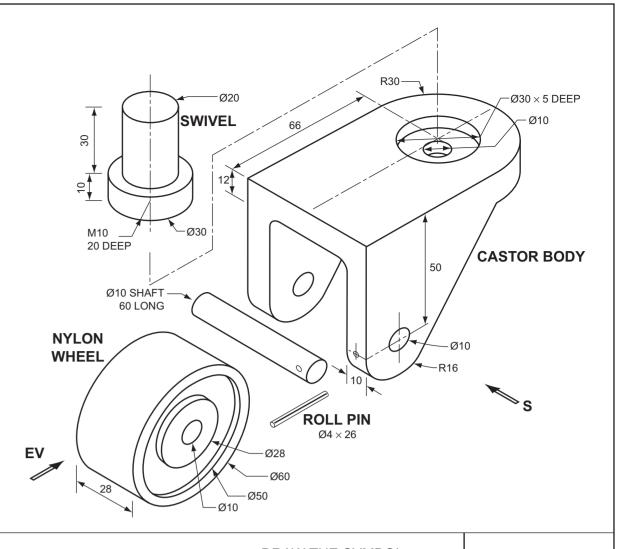
[6]

(iii) the plan.

Show the M10 threaded hole and the machine screw in the

sectional view (i) only. Hidden detail is not required in any view.

(b) In the space indicated, draw the symbol for the angle of projection you have used for your drawing. [2]



DRAW THE SYMBOL FOR THE ANGLE OF PROJECTION USED HERE

Examiner's

[Turn over

Write your surname, other names, Centre number and candidate number in the spaces provided. Candidate's Surname

Other Names Centre Number ...

Draw your answers in the spaces provided on the question paper. All dimensions are in millimetres. Candidate's Number

International General Certificate of Secondary Education UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

DESIGN AND TECHNOLOGY

Paper 2 Communication

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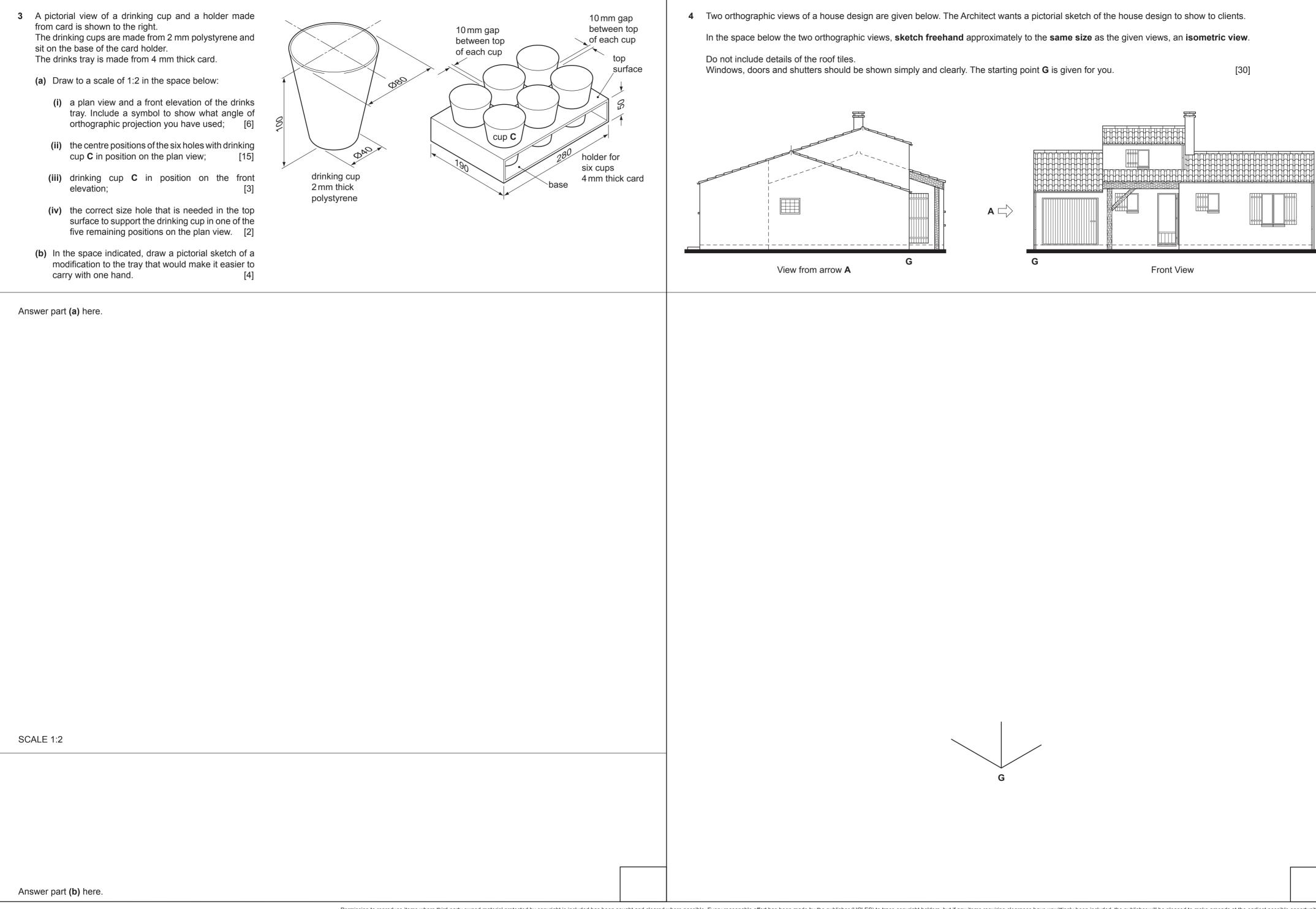
0445/02

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Answer any **two** questions.

The number of marks is given in brackets [] at the end of each question or part question.



[30]