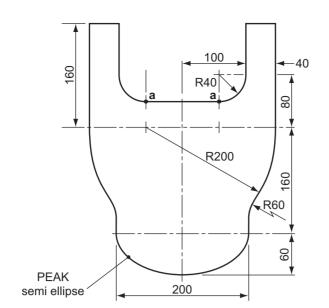
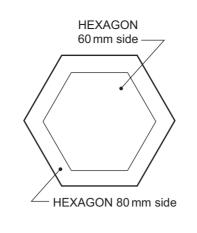
- **1** As part of a special promotion, a manufacturing company called **HEXAGON TUBE** is to give away hats made from thin card. The outline of the development of the hat is shown to the right.
  - (a) On the centreline below, draw the development of the hat to a scale of 1:2. The start line **a-a** has been drawn for you. All construction work should be clearly shown. [15]
  - (b) The hat is to have the company badge printed on the top of the peak. Using the sizes from the outline of the company badge shown to the right:
    - (i) draw the company badge on the development you have drawn below; [6]
    - (ii) draw the letters TUBE in a suitable style on the inner hexagon of the company badge. [6]
  - (c) The hats need to fit adults and children.

Draw on the development a method of fastening the two 40 mm wide strips together at two different length settings. [3]



a



Outline of company badge



Scale 1:2

International General Certificate of Secondary Education UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS **DESIGN AND TECHNOLOGY** 

## 0445/02 0446/02 October/November 2006

Paper 2 Communication

**DESIGN AND COMMUNICATION** 

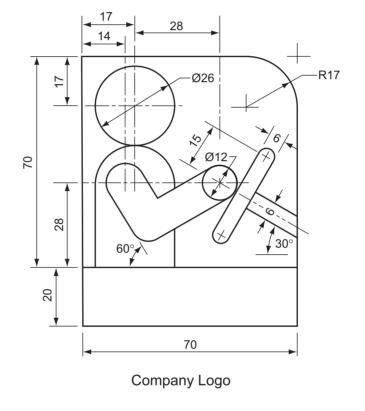
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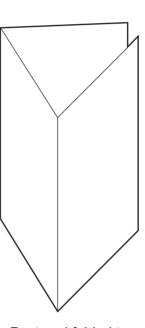
1 hour IB06\_11\_0445\_02/3RP

Outline of Postcard development For Examiner's Write your surname, other names, Centre number and candidate number in the spaces provided. Candidate's Surname use Answer any two questions. Other Names Draw your answers in the spaces provided on the question paper. Centre Number All dimensions are in millimetres. ber ..... The nu [Turn over

2 A vehicle hire company called **U-DRIVE** is to produce an advertising postcard to send to potential customers. The postcard is to be folded by the customer to make a desk tidy. The outline of the postcard is drawn below.

- (a) Accurately divide the long side of the postcard into three equal parts so that, when folded, the postcard will have three faces as shown in the pictorial view. [3]
- (b) (i) To a scale of 1:1, draw the company logo shown, including the outline frame, on one of the faces you have created. [15]
- (ii) Add the company name to the rectangular box at the bottom of the logo.
- (c) Using a suitable graphical method, complete the remaining two faces of the desk tidy with a visual chart showing:
  - (i) the numbers and types of vehicle available for hire on one face; [4]
  - (ii) the rental periods available to customers on the other face. [4]
- (d) In the space provided to the right, show a design for holding together the two ends of the card desk tidy without using glue. [2]





[2]

Postcard folded to make a desk tidy

|  | A.                | N.N. Papa         | Cambridge.co | 3 |
|--|-------------------|-------------------|--------------|---|
| ANSW   | /ER ( <b>d)</b> H |                   |              |   |
| Total Vehicles ava                           | ilable fo         | or Hire           |              |   |
| Delivery Vans<br>Heavy Trucks<br>Family Cars | 21<br>9<br>12     | 42%<br>18%<br>24% |              |   |
| Delivery Vans<br>Heavy Trucks                | 21<br>9           | 42%<br>18%        |              |   |

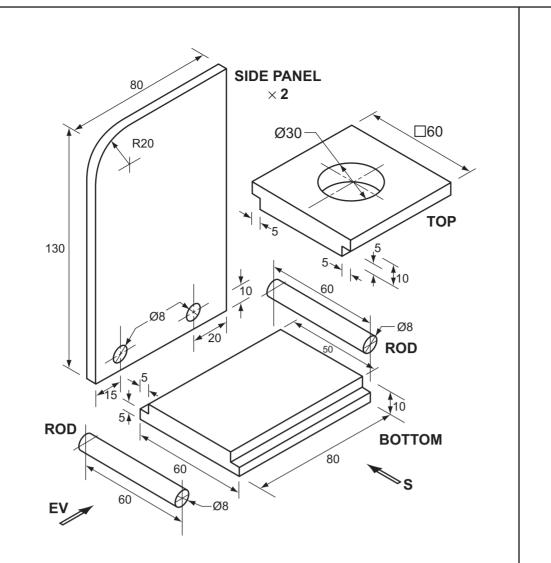
| <b>Rental Periods</b> |        |  |  |
|-----------------------|--------|--|--|
| 24 Hrs                | 1 Day  |  |  |
| WEEKEND               | 2 Days |  |  |
| WEEKDAYS              | 5 Days |  |  |
| WHOLE WEEK            | 7 Days |  |  |

Information for part (c)

- 3 An exploded view of component parts for a computer disk storage rack is shown to the right. The two side panels fit into 5 × 5 rebates in the top and bottom. The two Ø8 rods fit into the Ø8 holes provided in the side panels. The small pictorial sketch shows the parts assembled with one computer disk in the rack.
  - (a) Draw to a scale of 1:1 in either first or third angle projection, the following views of the assembled rack:
    - (i) a sectional view taken through the centre of the rack looking in the direction of arrow S; [12]
    - (ii) the end view looking in the direction of arrow **EV**; [8]
  - (iii) the plan. [8]
  - (b) In the space indicated, draw the symbol for the angle of projection you have used. [2]

Show hidden detail on the plan view **only**. **Do not** show a computer disk in the rack.

Pictorial Sketch  $\bigcirc$ 



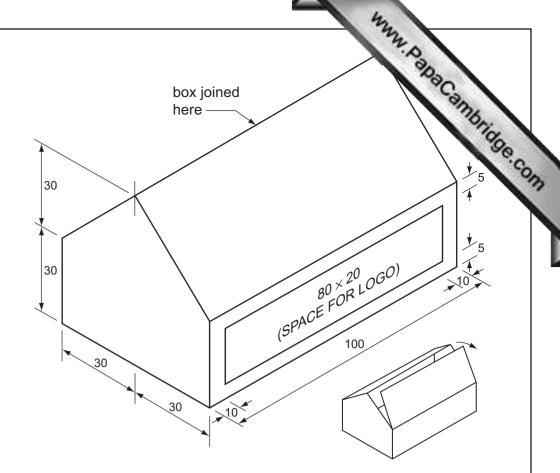
DRAW THE SYMBOL FOR THE ANGLE OF PROJECTION USED HERE

Permission to reproduce items wh University of Cambridge Internation 4 A thin card sweet box for a children's party is shown to the right. The box is to have the sweet company logo printed in the area indicated. The name of the company is **WHEELS**.

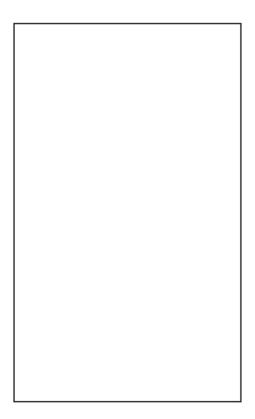
In the space below:

- (a) sketch two ideas for the logo which must represent the name of the company; [4]
- (b) complete the full size, one-piece development of the sweet box. The bottom of the box has been drawn for you. Include all gluing and other flaps; [16]
- (c) draw accurately your chosen design for the logo on the correct part of the development; [3]
- (d) add to the development you have drawn, a carrying handle that will keep the box closed when it is carried; [4]
- (e) add colour to the logo to enhance its appearance. [3]

ANSWER (a) HERE



ANSWER (b) HERE



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