SECTION 1: Answer one question from this section.

Question 1

The sketch on the right shows a display stand for a holiday company called 'Sun King'. The display stand consists of a folded support, three shelves and an information board.

the [3] and the information board Complete the parts list below for shelves. (a)

	Length	Width	Thick.	Number
Information board		300	20	1
Top shelf		150	20	_
Lower shelves	350	150	20	

- In the space below, draw the following orthographic views of the fully assembled display stand to a scale 1:10. **@**
- A view in the direction of **FE**. Ξ

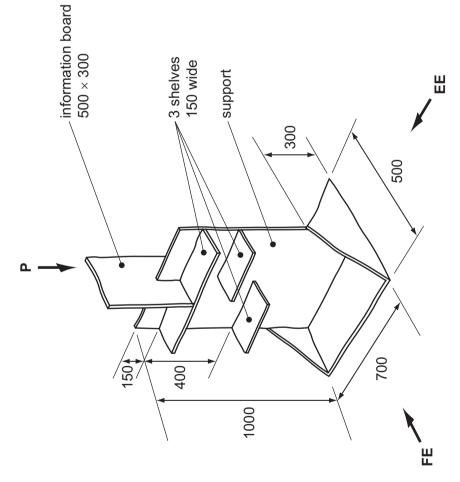
 - A view in the direction of **EE**.

€

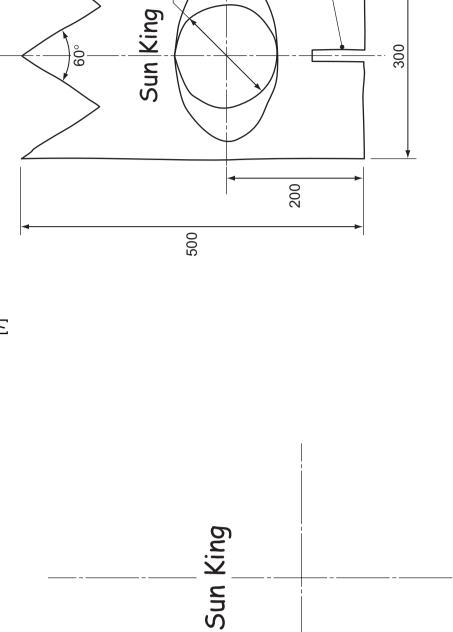
A plan in the direction of **P**.

(iii)

- [9]
- 4 [2]



The design for the information board is shown on the right. Complete the drawing of the information board on the centre lines below to a scale of 1:5. <u>ပ</u>



-ellipse major axis 250 minor axis 150

Ø150

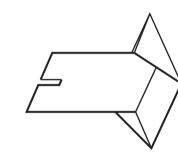
slot 20×75

300

The support, shown below, is made from a one-piece development (net) cut and folded from a single sheet of foam board. **©**

In the space below, sketch a design for the one-piece development (net) for the support. Include fold lines and glue tabs. [3]

Ξ



In the space below draw a sectional view to show a method of cutting the foam board so that it can be folded easily. [2] €

* 8 1 6 3 9 4 0 4 7	UNIVERSITY OF CAM General Certificate of E. CDT: DESIGN AND COMMUNICATION Paper 1
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7048/01

October/November 2012

2 hours 30 minutes

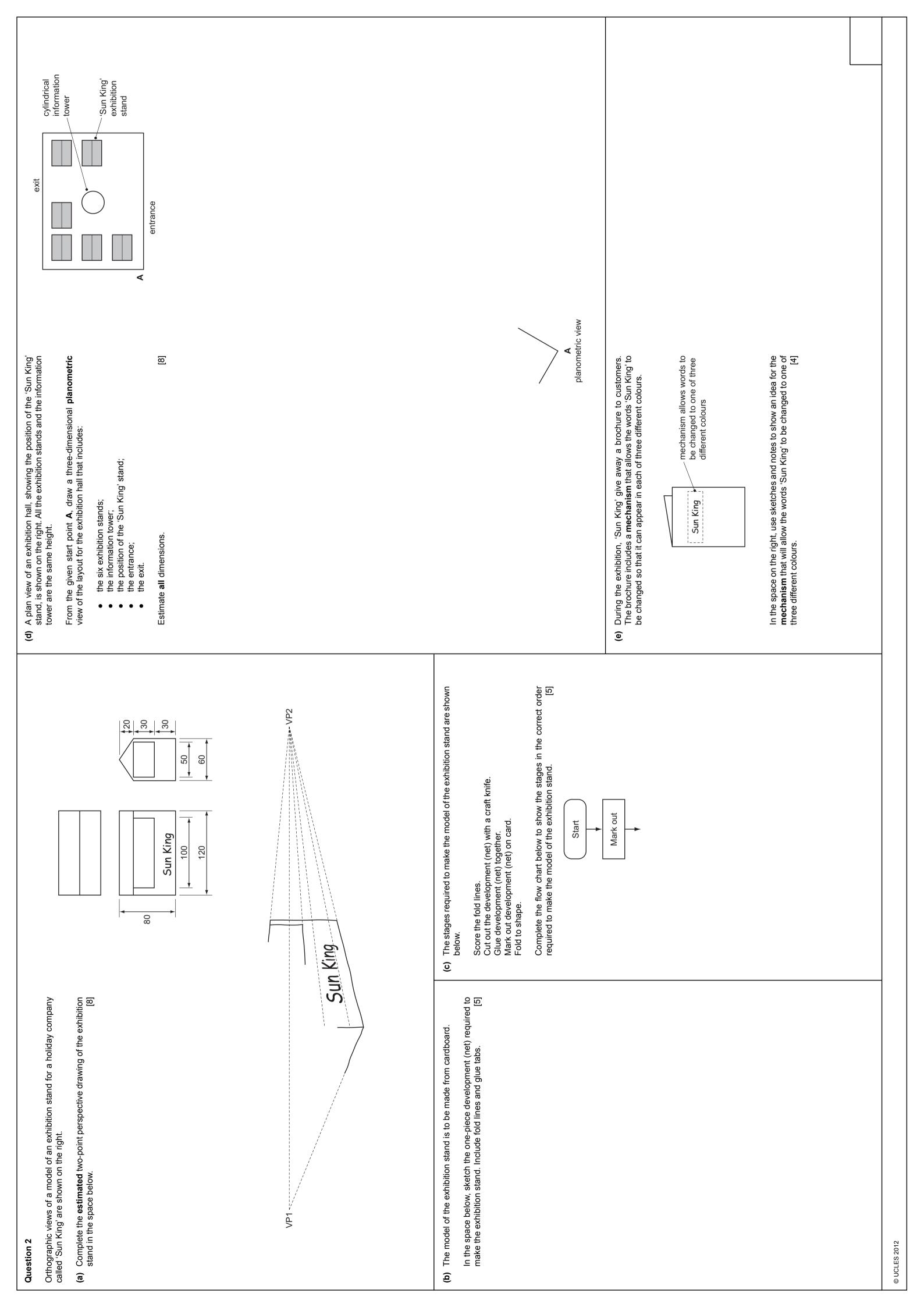
plus 15 minutes reading time

IB12 11_7048_01/4RP

SHEET 1 OF 2 (SECTION 1)

Write your surname, other names, Centre number and candidate number in the spaces provided. Answer one question only from Section 1 (Questions 1 and 2). Answer two questions only from Section 2 (Questions 3 to 6). Answer the questions in the spaces provided. All construction and projection lines must be clearly shown. All dimensions are in millimetres unless otherwise stated. The number of marks is given in brackets [] at the end of each question or part question. DO NOT WRITE IN ANY BARCODES.

Examiner's use only Turn over Centre Number Candidate Surname Other Names Candidate Number



(b) Three drawings from a colouring sheet show the outline shapes of flags. Accurately construct the three flags in the large rectangles provided. [6]	flag 1	flag 2	flag 3	rings orthographic views three-dimensional view orthographic views three-dimensional view crayon ring 1 crayon ring 2 Trum over	
Question 4 The holiday company 'Sun King' gives away colouring packs to children.		 (a) Complete the oblique drawings below by: (i) rendering crayon A to enhance the round appearance; (ii) making crayon B hexagonal in shape. 	crayon A	cayon rings are to be given to children. The crayon rings are stored in the package shown below. ring made from wax tray pulls out a colouring of sleeve (i) In the space below, sketch a three-dimensional view of an empty storage box with the tray pulled half way out of the sleeve. [5]	Candidate Surname
	Peel off the backing paper Stick label onto luggage of the label		Regular octagon Rhombus	Make a three-dimensional sketch of the luggage label attached to the luggage handle below. [4]	SHEET 2 OF 2 (SECTION 2) Write your surname, other names, Centre number and candidate number in the spaces provided. Answer one question only from Section 1 (Questions 1 and 2). Answer two questions only from Section 2 (Questions 3 to 6). Answer the questions in the spaces provided. All construction and projection lines must be clearly shown. All dimensions are in millimetres unless otherwise stated. The number of marks is given in brackets [] at the end of each question or part question.
SECTION 2: Answer two questions from this section. Question 3 The holiday company 'Sun King' gives luggage labels to customers.	(a) Add sketches to complete the process diagram below to show to use a self-adhesive luggage label. Tear off luggage receipt from label Peel off	Receipt	(b) Name the two geometrical shapes below that are used for luggage labels and draw the two missing label shapes. Page 20 Page 20	(i) In the space below, draw the luggage label full size. Do not include any surface graphics. Estimate any dimensions not given.	CDT: DESIGN AND COMMUNICATION Paper 1 CDT: Design And it is are required October/November 2012 2 hours 30 minutes No Additional Materials are required © UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS 7048/01 Pager 1 2 hours 30 minutes Plus 15 minutes reading time © UCLES 2012 IB12 11_7048_01/4RP

In the space below, draw a **pie chart** to show the ways people travel on holiday. Use colour and labels to identify each sector. [6] Orthographic views of a pie chart are shown on the right. On the centre lines below, accurately draw a full-size three-dimensional isometric view of the pie chart with the sector 'exploded'. Do **not** add colour to your drawing. The holiday company 'Sun King' uses visual charts to show information about holidays. Aeroplane Boat Bus **Q** In the space below, draw a **bar chart** to show the most popular holiday destinations. Label each bar. 1000 of people 50 9 8 Australia Europe Africa Question 6 Asia (a) **©** State what is meant by the following features on the development (net) of the card sleeve. The window in the card sleeve is made from clear plastic sheet. Render the panel below to make it appear like clear plastic sheet. card sleeve plastic tray sectional view Tray Z Feature SIDE PRINT ORIENTATION False [9] The holiday company 'Sun King' gives packages of fruit to customers to eat whilst they are travelling. The packages consist of a plastic vacuum-formed tray and a card sleeve. [3][3] Sketch a sectional view through plastic trays X and Y. Ignore the thickness of the plastic; Tick (\checkmark) to indicate whether the following specification points for the trays are true or false. True > $\widehat{\equiv}$ $\widehat{\equiv}$ sectional view Tray Y Sketch the fully assembled card sleeve on the outline of the plastic tray shown below. The drawing of the development (net) for the card sleeve for a fruit package is shown below. 7. The plastic trays have sloping sides to reduce the weight of the tray. 5. The plastic trays have a rim around the top to reduce the strength. 6. The plastic trays are squashed before the material is recycled. 4. The plastic trays are transparent so that the fruit can be seen. 2. The plastic trays are made from a thermoplastic 3. The plastic trays are produced in large quantity. SIDE PRINT ORIENTATION TUIAH GOT NOITATNIIRO sectional view 1. The trays are vacuum-formed. Tray X Sketch a 3D view of tray Z. (a) In the spaces below: Specification SIDE PRINT ORIENTATION Question 5 Ξ Ξ \equiv **@** <u>ပ</u>

sector

20

8

nds at the earliest possible opportunity.

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A silhouette is to be used to represent each method of travel. Complete the table below to show the **two** missing silhouettes. [4]

<u>ပ</u>

Aeroplane

Bus

Boat

pie chart

Train

1000 of people

15 90 30 45