SECTION 1: Answer one question from this section.

Question 1

A model of a sports stadium is shown in orthographic views on the right. A pictorial illustration of the model is required.

(a) Use corner **X** as a starting point to:

- (i) draw a 1:10 scale isometric view of the model of the sports stadium; [11]
- (ii) enhance the appearance of your illustration with thick and thin lines. [3]

Estimate any dimensions not given.



orthographic views of a model of a sports stadium



 \checkmark corner X



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CDT: DESIGN AND COMMUNICATION Paper 1

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7048/01

October/November 2010 2 hours 30 minutes plus 15 minutes reading time IB10 11_7048_01/3RP

SHEET 1 OF 2 (SECTION 1)

Print 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.



Question 2

The drawing on the right shows details of a seating area for a model of a sports stadium. The model is made from card and has a detachable roof and advertising board.

(a) In the space below draw, to a scale of 1:2, the following orthographic views of the fully assembled seating area:

- (i) an end view in the direction of EE; [6]
- [5] (ii) a front view in the direction of FE;
- (iii) a plan in the direction of P.

Estimate any dimensions not given.



VP1

(b) Use the start lines below to complete the 1:2 scale drawing of the development (net) required to make the advertising board. Clearly show all fold lines and tabs. [5]	(c) An advertisement for a fruit drink is to be used on the advertising board. The design is to be based upon the images below and the word 'ZING'.
	\Box
	In the space below, use sketches to show a design for the advertisement that will include at least one of the images and the word. [3]
(d) A pictorial illustration of the advertising board is required. Complete the estimated two point perspective drawing below by:	
(i) drawing the assembled advertising board; [3]	
(ii) adding the design you produced in (c); [2]	
(iii) using colour to enhance the appearance of the illustration. [2]	

VP2

SECTION 2: Answer two questions from this section.	semi-circle	Question
Question 3 The sketch on the right shows the layout for a programme for a school sports day. The programme is printed on A4 paper and folded in to three equal parts. (a) Complete the scale 1:2 drawing below to show the layout for the programme. [12]	A4 sheet 296 mm × 210 mm 3 × 60 mm diameter circles 3 × 60 mm squares 3 × 60 mm squares 10 mm wide 45° stripe	The sketch a canvas t and arms.
		A line drav (a) C to
		(b) ⊺। (i (ii
scale 1:2 drawing of programme A clear acrylic base is to be used to hold the programme in a triangular shape so that it can stand on a desk. (b) Complete the instructions below to show how the acrylic base is folded into the shape shown in stage 3. [6] Image: Cut acrylic to shape and mark out folds Image: Cut line fold line	A two part wooden former is to be produced so that 50 identical acrylic bases can be made. A sectional view of the former is shown below. triangular top round pegs square base (c) In the space below, produce an exploded pictorial sketch of the former. [7]	(c) Ti th ca
Fold acrylic at 90°		
Fold to form an equilateral triangle		
UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAI General Certificate of Education Ordinary Level	MINATIONS SHEET 2 OF 2 (SECTION 2) Print your surname, other names, Centre number and candidate num Answer one question only from Section 1 (Questions 1 and 2). Answer two questions only from Section 2 (Questions 3 to 6).	ber in the sp

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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.

stion 4



Candidate Number



Three teams are to take part in a sports day. The teams are called Lions, Eagles and Sharks. Team members are identified by an A4 sheet of paper pinned to their shirt. The paper has a border, image and the team name

(a) Complete the drawings on the right to show the A4 paper identifying each team. The images below have been provided to help you. [8]



The sports day results are shown in the table below.

	First	Second	Third
Lions	6	10	2
Eagles	8	4	6
Sharks	4	4	10

+

(b) Use the sports day results to draw a pie chart in the circle below to show the number of first places achieved by each team. Use colour and images to enhance your chart. [8]



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