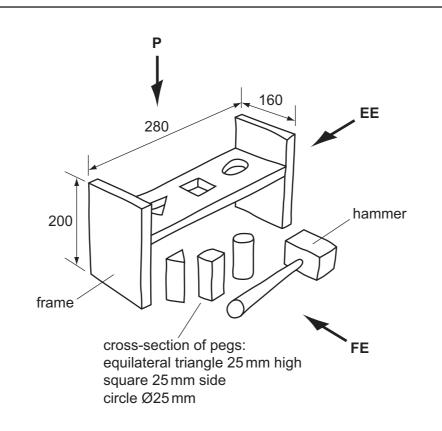
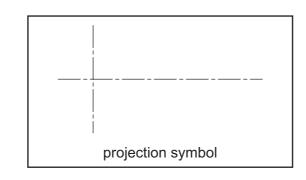
SECTION 1: Answe	er one question	from this section.
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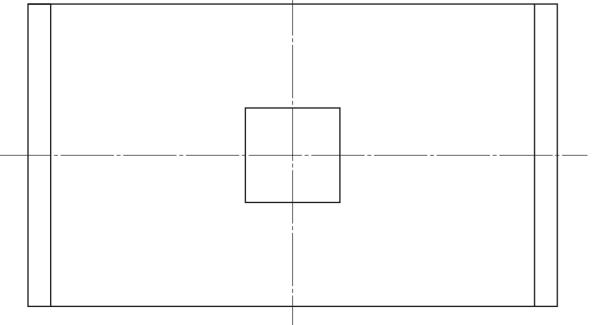
Question 1

A sketch of a hammer and peg toy is shown on the right. The toy consists of a frame, three pegs and a hammer.

- (a) In the space below, complete to a scale of 1:2 the following orthographic views of the **frame** of the toy.
- (i) A front view in the direction of **FE**. [4] (ii) An end view in the direction of **EE**. [2] (iii) A plan in the direction of **P**. [5] Do **not** show any hidden detail. (b) Add three dimensions to the orthographic views. [2]
- (c) Add the projection symbol in the box provided.







[2]

plan

front view

* 4 3 4 2 7 2 6 3 2 5 *

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CDT: DESIGN AND COMMUNICATION Paper 1

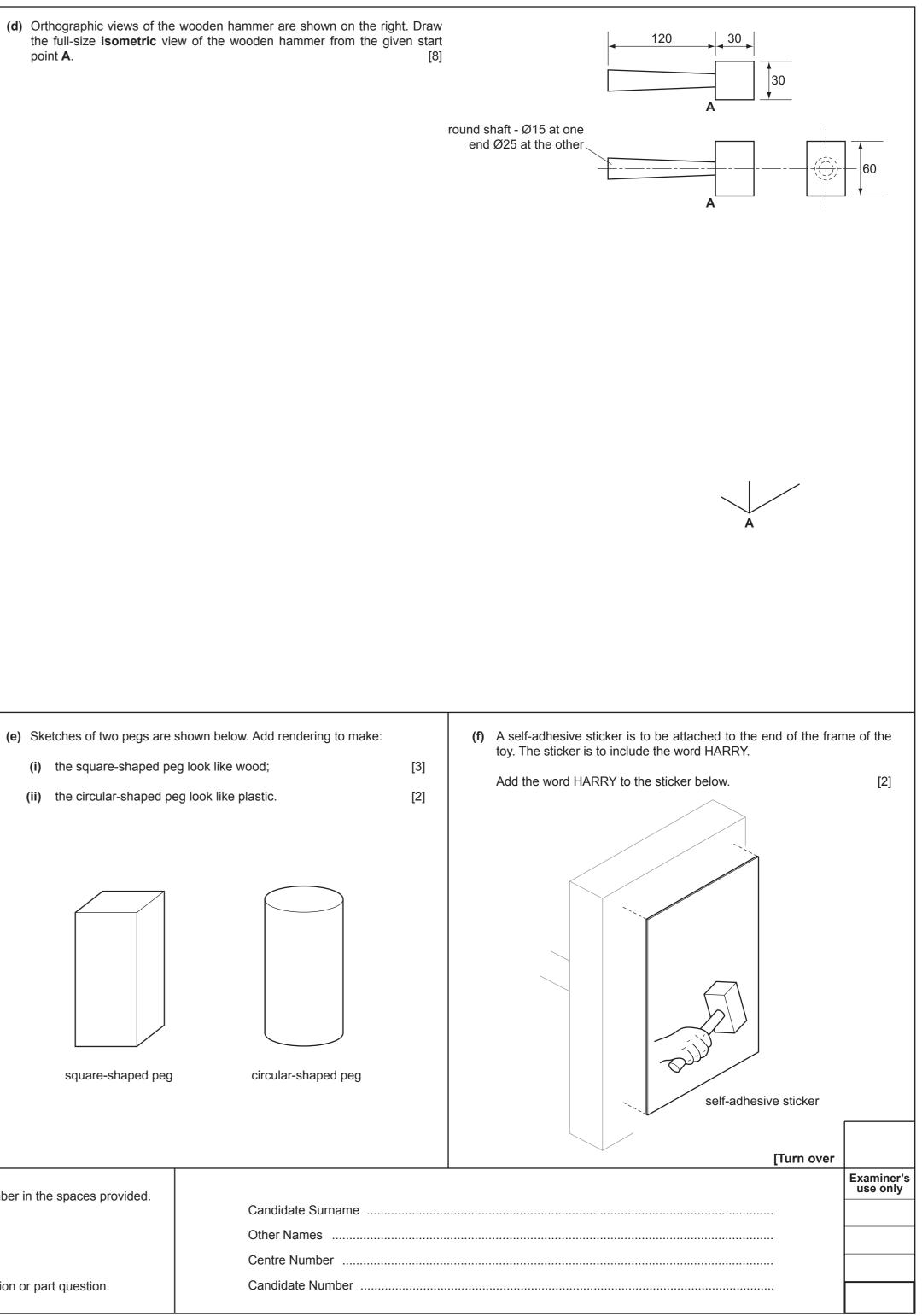
No Additional Materials are required

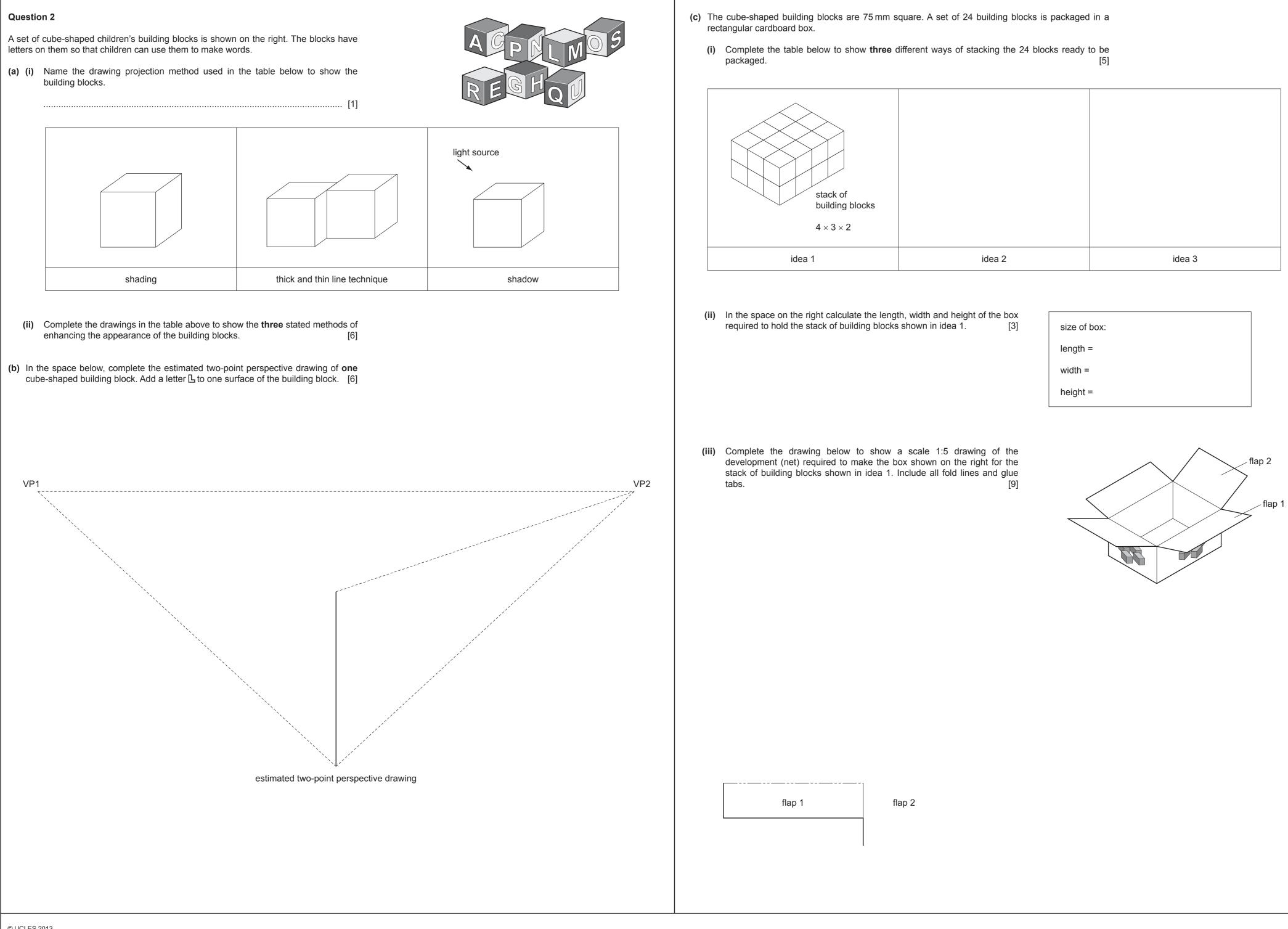
plus 15 minutes reading time

SHEET 1 OF 2 (SECTION 1)

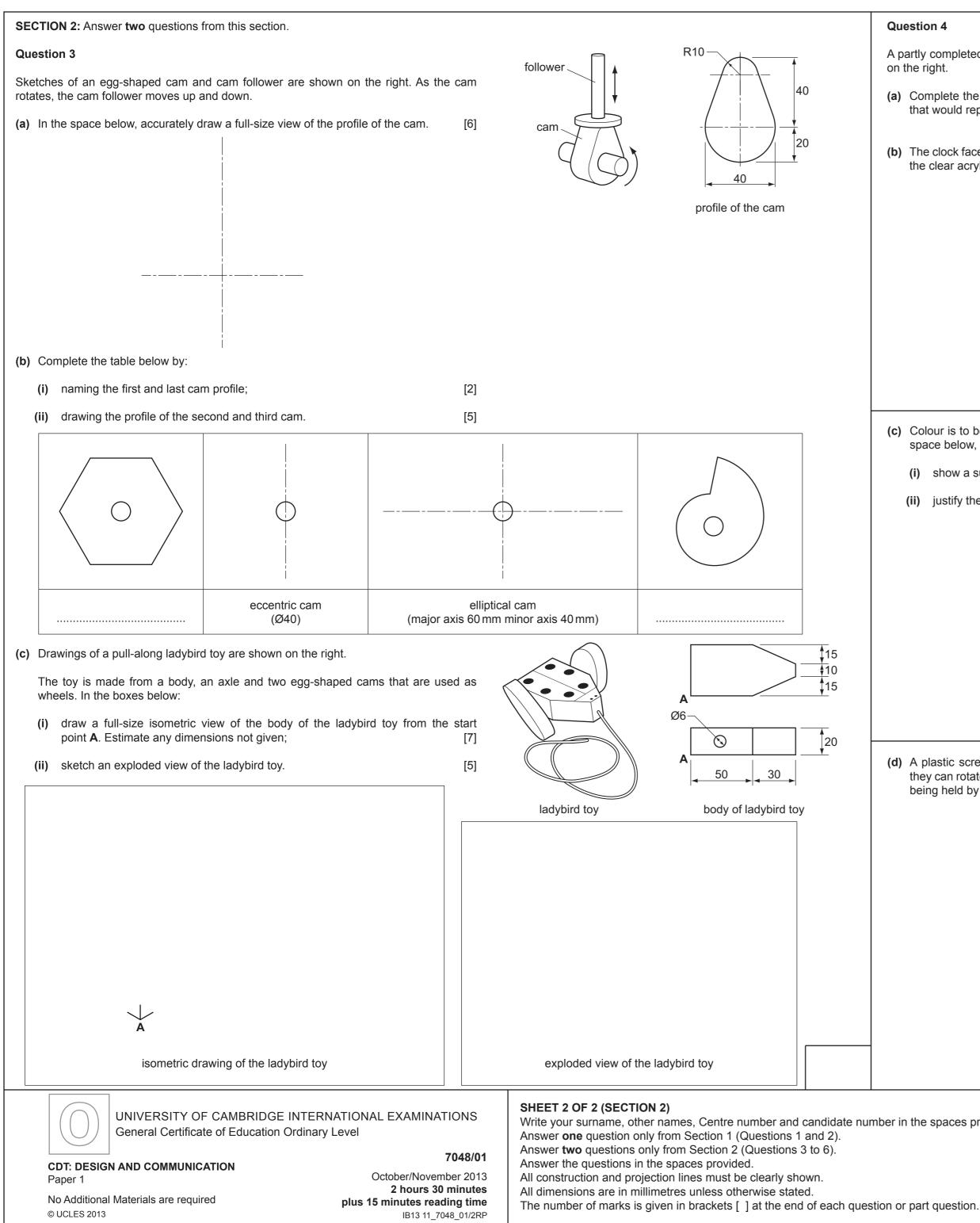
Write your surname, other names, Centre number and candidate number in the spaces provided. Answer one question only from Section 1 (Questions 1 and 2). Answer two questions only from Section 2 (Questions 3 to 6). 7048/01 Answer the questions in the spaces provided. All construction and projection lines must be clearly shown. October/November 2013 All dimensions are in millimetres unless otherwise stated. 2 hours 30 minutes The number of marks is given in brackets [] at the end of each question or part question. DO NOT WRITE IN ANY BARCODES. IB13 11_7048_01/2RP

end view





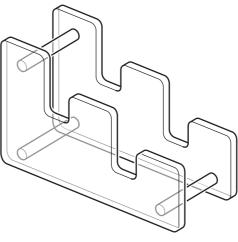
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A partly completed view of a clock face that is used to help children tell the time is shown

(a) Complete the drawing of the clock face by adding the centres of eleven more circles that would represent the numbers. [6]

(b) The clock face is made from 10 mm thick foam board and held in an upright position on the clear acrylic stand shown below. Render the stand to look like clear acrylic. [3]

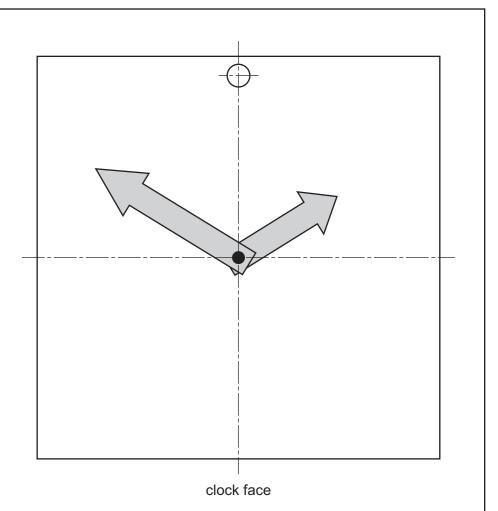




(c) Colour is to be used to enhance the appearance of the clock face. In the space below, use sketches and notes to:

(i) show a suitable colour scheme for the clock face;

(ii) justify the choice of colours.



(e) An instruction leaflet is included with the clock. The leaflet contains a flow chart with the following stages for assembling the clock.

1 Unpack the pieces.

[2]

[2]

2 Stick on the circles.

3 Fasten the hands to the correct tightness.

4 Place the face on the stand.

Complete the flow chart below to show the stages in assembling the clock. Include a feedback loop to show customers what to do if the hands do not [8] turn.

		Start	
rotate. In the spac d by the screw-bo	d to hold the hands to the clock face so that e below, sketch the sectional view of the hands It to the clock face. [4]		
			Turn over
es provided.	Other Names		

(a) Dice and spinners are often used in children's boa Answer the questions in the table below.	ard games to show numbers				(a) A we Con and
dice 1	dice 2	L.	spinner		
Use sketches and notes to show how a stencil would be used to add the numbers to dice 1.	Name the shape of dice 2.	[1]	Name the shape of the spinner.	[1]	fixed
	State the number of surfac		Give a benefit of making the spinner fro plastic.		loi
[3]					(b) Deta
(b) The results of 36 throws of dice 1 are shown in the	ne table below.	(c) Orthographic	views of the shaker cup are shown below		Acci
Draw a pie chart on the centre lines below to 36 throws. Use colour and labels to enhance you Number on dice 1 2 3 Number of times thrown 6 9 6	show the results of the [6]	Draw a full-siz	ze planometric view of the cup on the cer	tre lines below. [7]	
					(c) Res
					1
					2
(d) The shaker cup is made from two pieces of card Use sketches to show the shape of each piece of notes to describe how the two pieces will join tog	of card. Include all glue tabs	and [5]			(d) Writ 1 2
					3
			is where third-party owned material protected by copyright is incl		

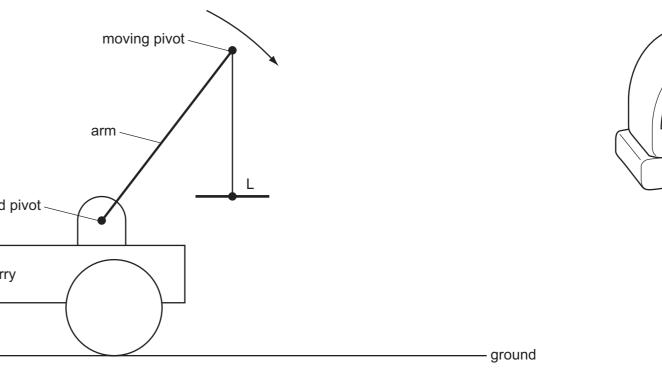
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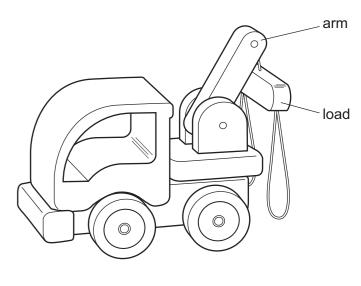
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on 6

oden toy lorry is shown on the right.

nplete the diagram below to show the path of the load (L) as the arm swings down lowers it to the ground. [7]







ails of the lorry window are shown on the right.

