

Junior Certificate Examination 2004

Technical Graphics Ordinary Level Section A (120 Marks)

Monday 21 June Afternoon, 2:00 to 4:30

Centre Number			

Mark

Question

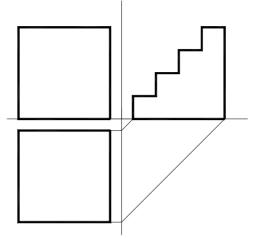
Instructions

- (a) Answer any **ten** questions in the spaces provided. All questions carry equal marks.
- (b) Construction lines must be clearly shown.
- (c) All measurements are in millimetres.
- (d) This booklet must be handed up at the end of the examination.
- (e) Write your examination number in the box provided below and on all other pages used.

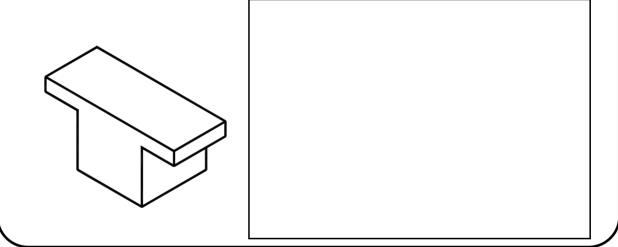
Question	IVIUIIX
Section A	
1	
2	
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Total	
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Examination Number:	
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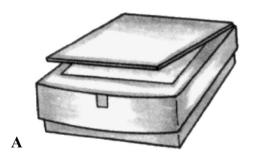
Shown is the incomplete elevation, incomplete plan and end view of a set of **steps**. **Insert** the lines omitted in the elevation and in the plan.



Make a freehand pictorial sketch of the picnic table in the space provided. Apply shading to the sketch.



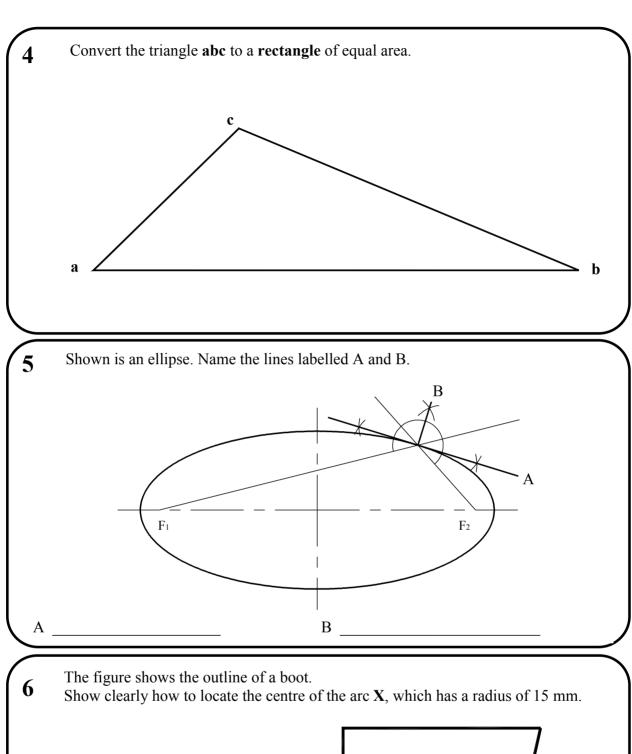
3 Identify the computer related components shown at A and B

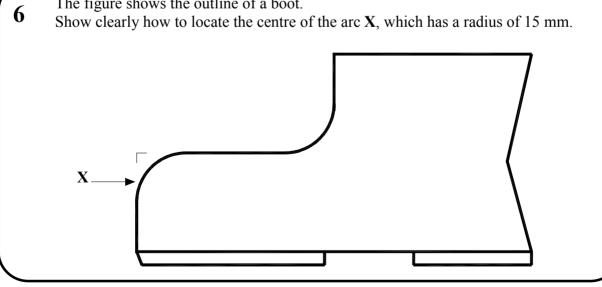


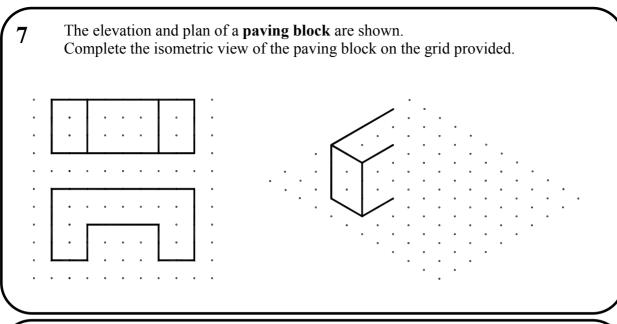
B

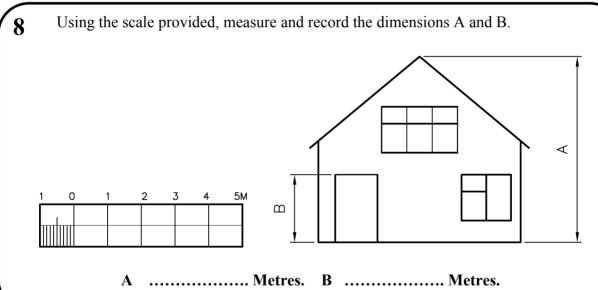
A

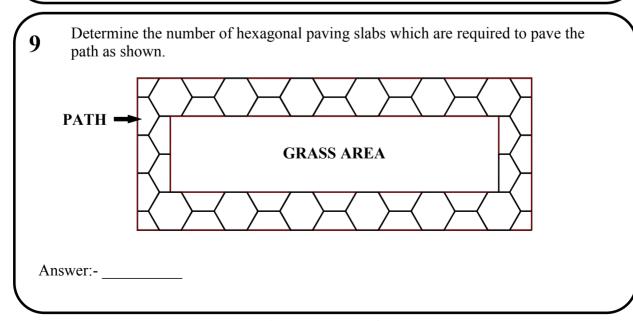
В _____

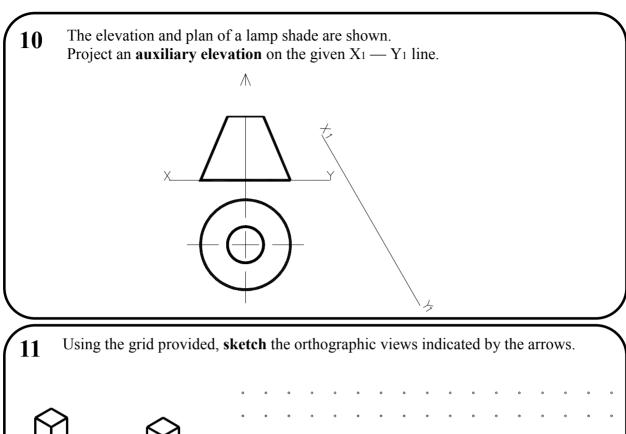




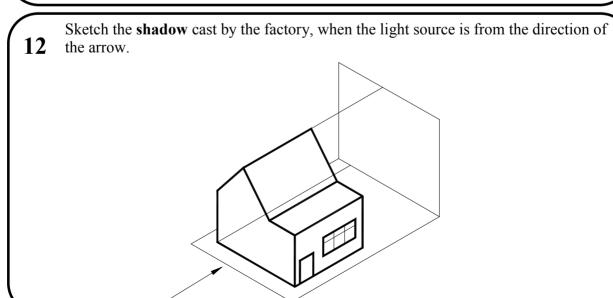






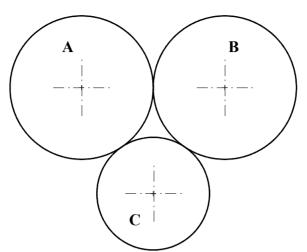




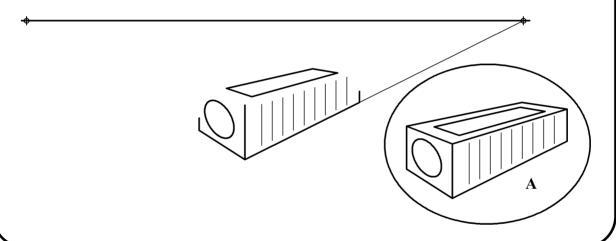


The diagram shows three coins in contact.

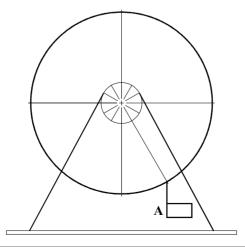
Locate the points of contact between the three coins, A, B and C.



14 The figure shows the incomplete two point perspective of a pencil sharpener. Complete the perspective similar to the view shown at **A**.



The figure shows a fairground Ferris wheel. The wheel rotates 60° anticlockwise. Draw the chair A, in the new position.



This booklet must be handed up at the end of the examination

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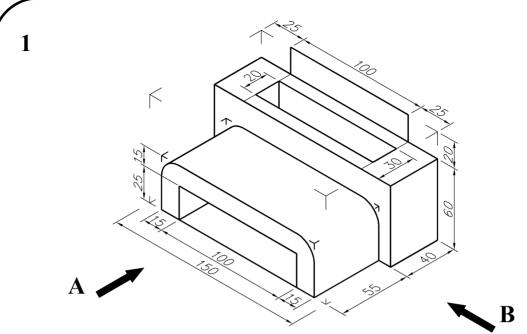
Junior Certificate Examination 2004

Technical Graphics Ordinary Level Section B (280 Marks)

Monday 21 June Afternoon, 2:00 to 4:30

Instructions

- (a) Answer any four questions. All questions carry equal marks.
- (b) The number of the question must be distinctly marked by the side of each answer.
- (c) Work on **one side** of the answer paper only.
- (d) Write your examination number on each sheet of paper used.

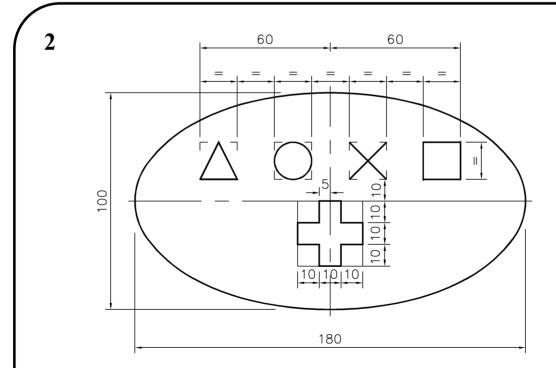


The figure shows the outline of a **printer**.

Draw the following views:

- (a) A front elevation looking in the direction of arrow A.
- **(b)** An end elevation looking in the direction of arrow **B**.
- (c) A plan projected from the front elevation.

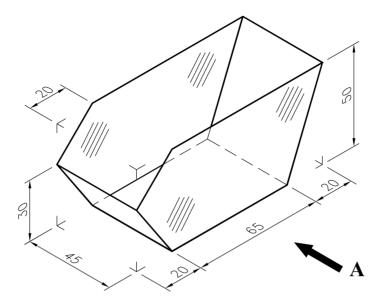
Insert any **FOUR** dimensions.



The figure shows the design of a **video game control pad** in the shape of an ellipse. The Major Axis is 180 mm and the Minor Axis 100 mm.

Draw the given design showing clearly all construction lines.

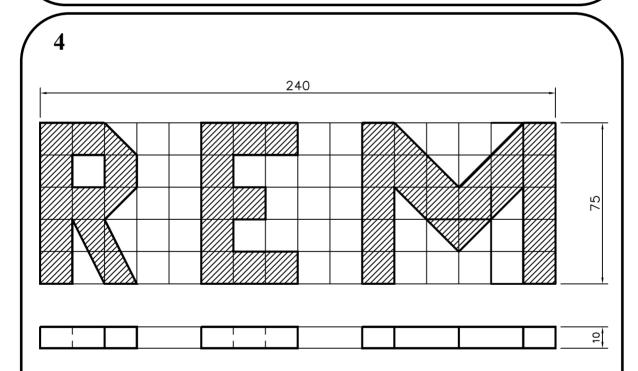
3



The figure shows the outline of a **sweet tray**.

Draw the following views:

- (a) A front elevation looking in the direction of arrow A.
- (b) A plan projected from the elevation.
- (c) The complete **surface development** of the sweet tray.



The figure shows the **LOGO** for the rock group **REM**.

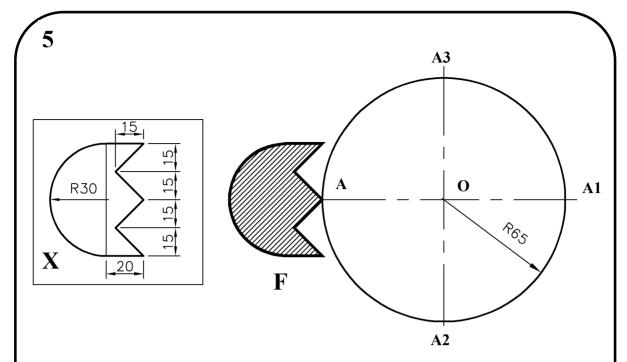
The grid is made up of 15mm squares.

Draw one of the following views:

(a) An **isometric** view <u>or</u>

(b) An **oblique** view of the logo.

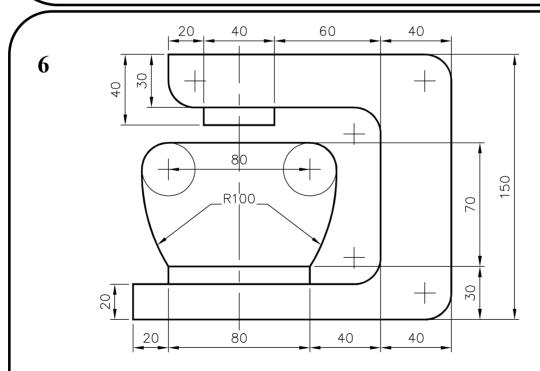
Apply shading to the completed view.



Using the dimensions at X, draw the given figure **F** and circle **O** as shown. Index the points A1, A2, A3 and O as shown.

Find the image of the figure **F** under the following transformations:-

- (a) From point A to A1 by an axial symmetry in the line A2 A3.
- (b) From point A1 to A2 by a translation.
- (c) From point A2 to A3 by a central symmetry in the point O.



A design for a **food mixer** is shown.

Reproduce the given design, showing clearly all constructions and points of contact. All the small arcs have a radius of 15 mm.