

Junior Certificate Examination 2007

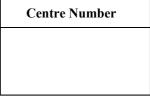
## Technical Graphics Higher Level Section A (120 marks)

### Monday 18 June Morning 9:30 - 12:30

#### Instructions

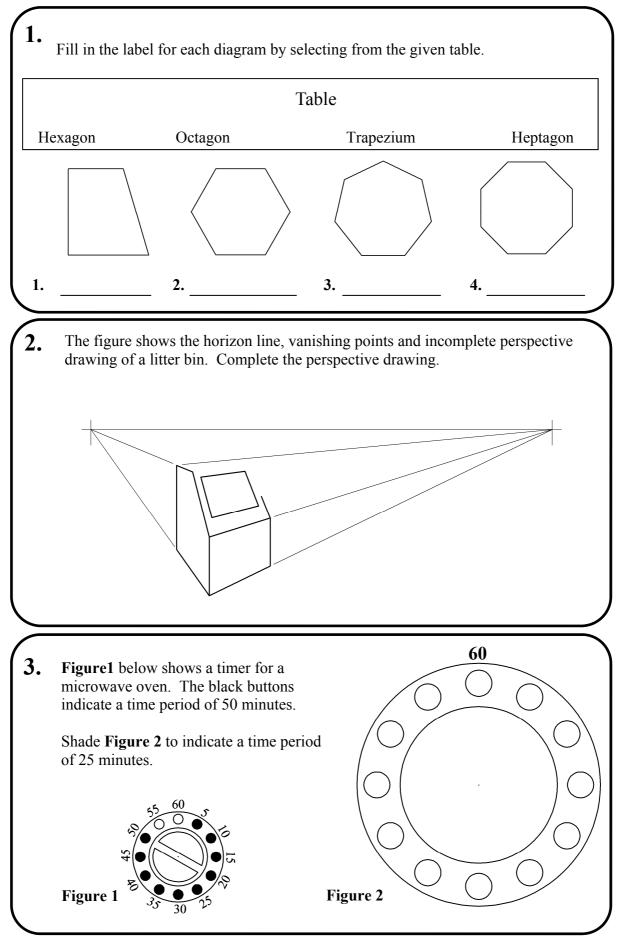
- (a) Answer **any ten** questions in the spaces provided. All questions carry equal marks.
- (b) Construction lines must be clearly shown.
- (c) All measurements are in millimetres.
- (d) This booklet must be handed up at the end of the examination.
- (e) Write your examination number in the box provided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

#### **Examination** Number:

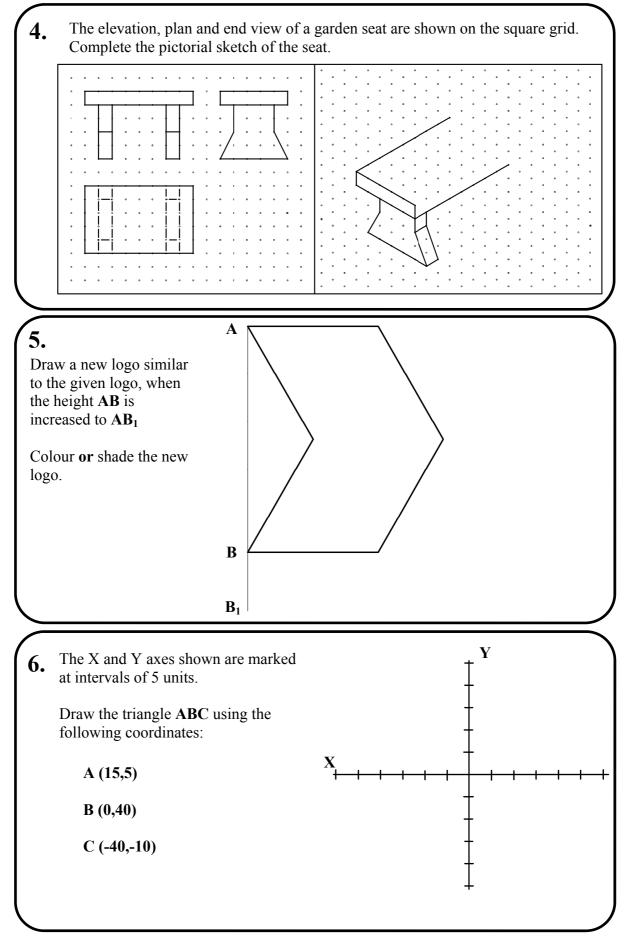


Question	Mark
Section A	
1	
2	
3	
4	
5	
6	
TOTAL	
GRADE	

#### SECTION A. Answer any ten questions. All questions carry equal marks.



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### 7.

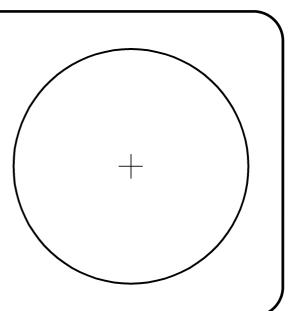
Twenty four students were surveyed about their favourite snacks.

The following are the results of the survey:

Fruit - 12 students Chocolate - 9 students Crisps - 3 students.

Divide the given circle to represent this information graphically as a pie chart.

Colour **or** shade the completed pie chart.

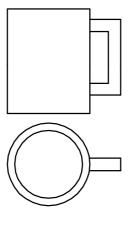


#### 8.

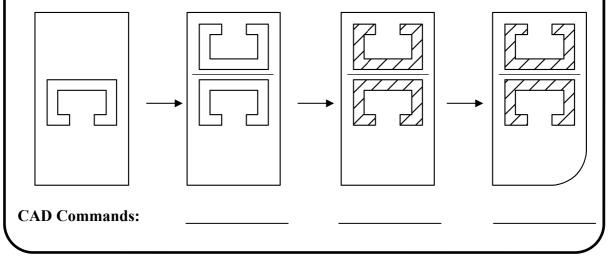
The elevation and plan of a mug are shown.

In the space provided draw a **freehand pictorial sketch** of the mug.

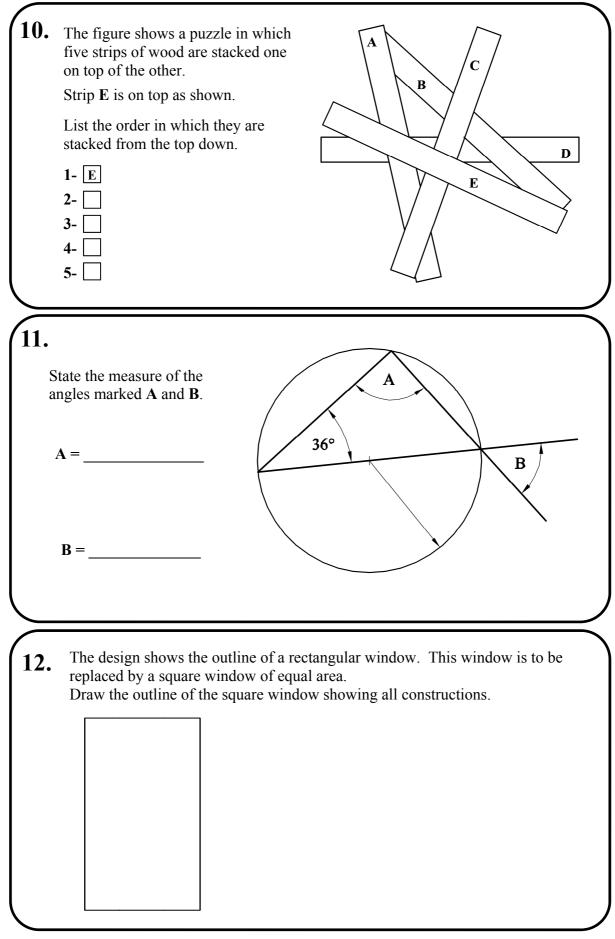
Colour **or** shade the sketch.



**9.** List the CAD commands used to edit the figure shown in the sequence below.



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13.
The outline of a circular washer is shown.
A hole of radius 10mm is to be drilled through the centre of the washer.
Locate the centre of the washer and draw the hole.
All constructions must be clearly shown.
<ul><li>14. The figure shows a wooden puzzle consisting of identical blocks. State the number of blocks in contact with the blocks marked A and B.</li></ul>
Block A is in contact with other blocks. Block B is in contact with other blocks.
15. The figure shows a lock consisting of lines and arcs.
The centres of the arcs are shown. $\begin{pmatrix} + & + \end{pmatrix}$
Indicate clearly the points of contact between the arcs.

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