

Coimisiún na Scrúduithe Stáit

State Examinations Commission

Junior Certificate Examination, 2010

Technical Graphics Higher Level Section A (120 marks)

Monday, 21 June Morning 9:30 - 12:30

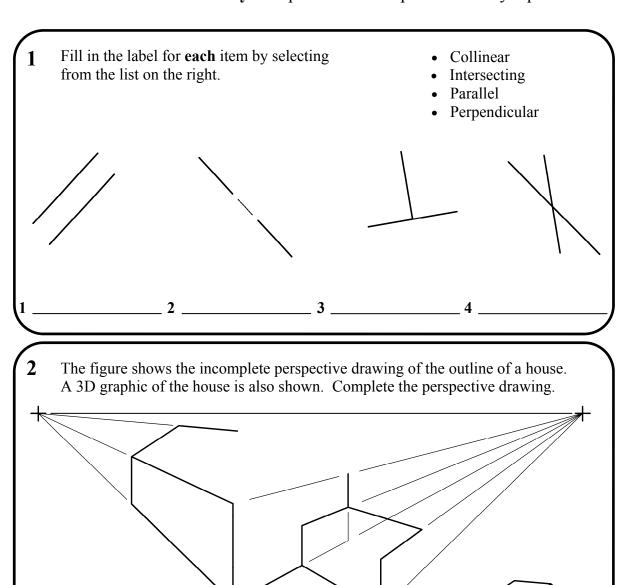
Instructions

- (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.

Centre Number	

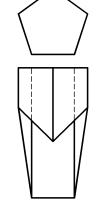
Question	Mark
Section A	
1	
2	
3	
4	
5	
6	
TOTAL	
GRADE	

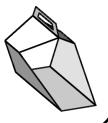
Examination Number:	
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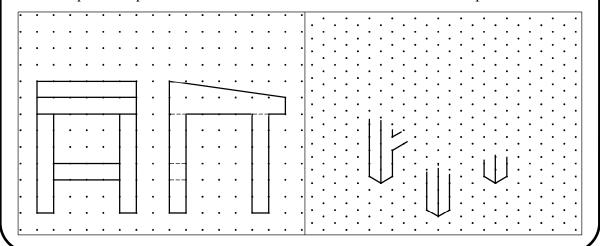
The figure shows the plan, elevation and a 3D graphic of a dust pan. Draw the development of the sides of the dust pan.

Note: It is not necessary to include the handle nor the back surface.





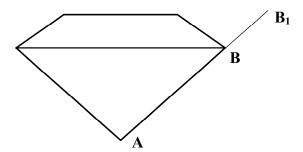
The elevation and end view of a writing desk are shown on the square grid. Complete the pictorial sketch of the desk. Colour **or** shade the completed sketch.



The figure shows the logo for a jewellery shop.

Draw a new logo similar to the given logo with length **AB** increased to **AB**₁.

Colour **or** shade the new logo.



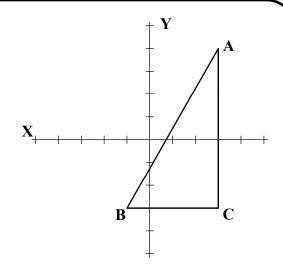
The X and Y axes shown are marked at intervals of 5 units.

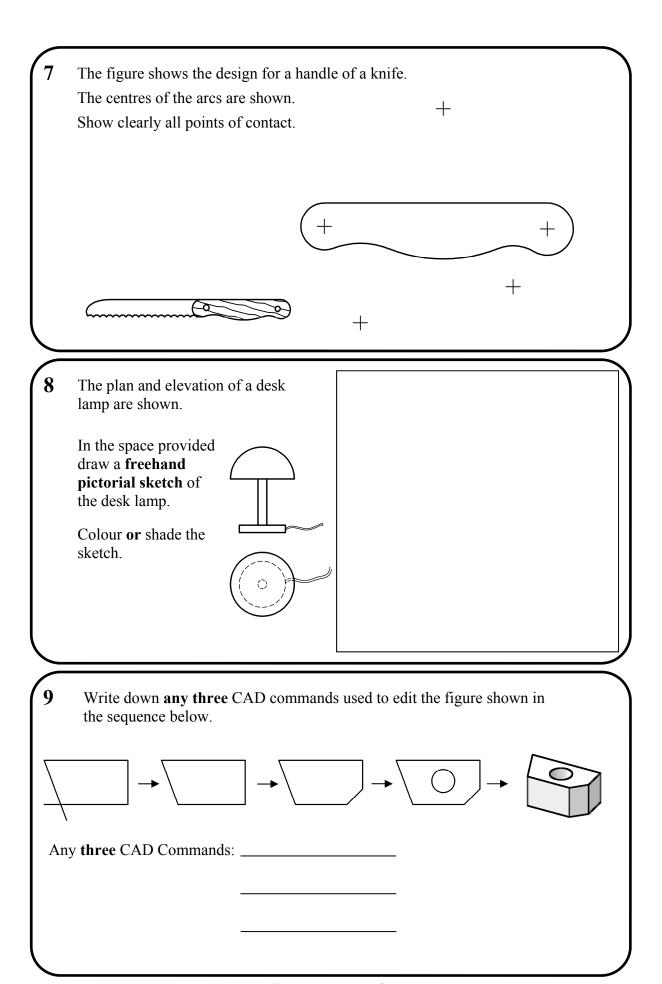
Write down the coordinates of the vertices of the triangle **ABC**.

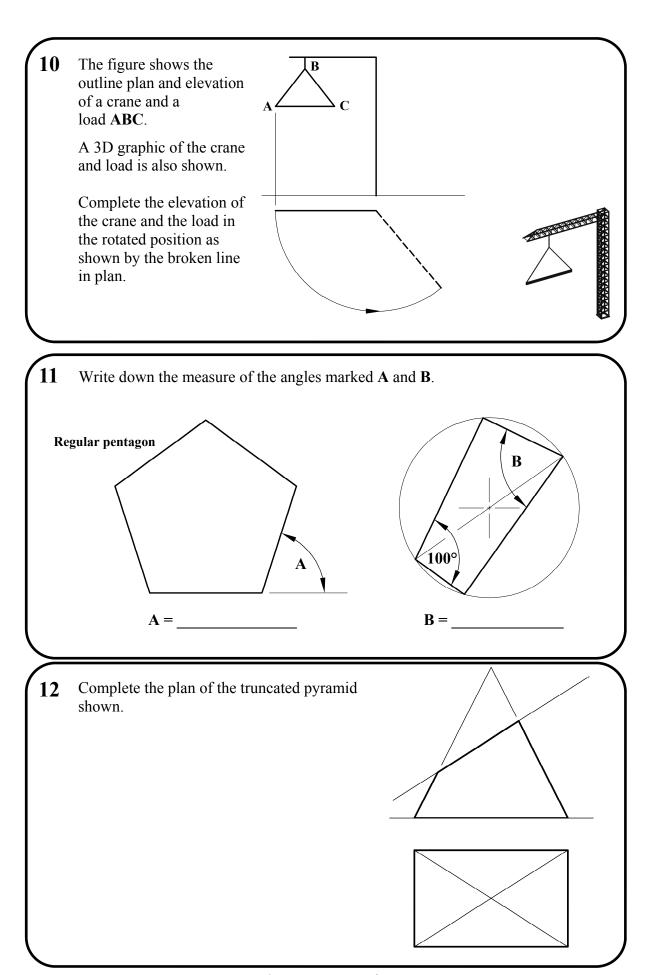
A

B _____

C _____

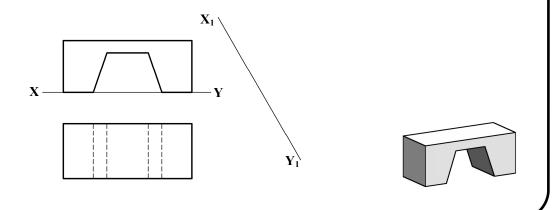






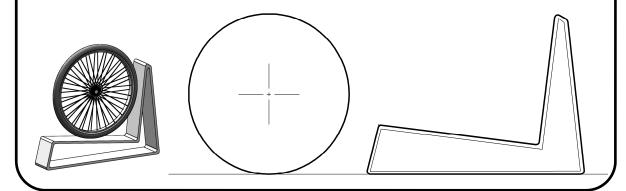
The figure shows the plan and elevation of a bridge. A 3D graphic of the bridge is also shown.

Project an auxiliary elevation of the bridge on the X_1Y_1 line shown.



14 The figure shows the elevation of a bicycle rack and the wheel of a bicycle. A 3D graphic of the wheel and rack is also shown.

Draw the wheel in position on the bicycle rack. Show all constructions and points of contact.



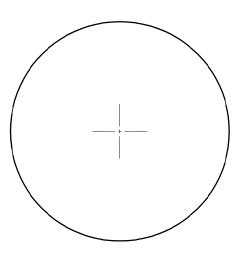
15 Twelve students were surveyed about their favourite sports.

The following were the results of the survey:

Football - 6 students Hurling - 4 students Basketball - 2 students.

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

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



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