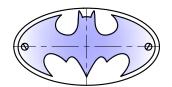
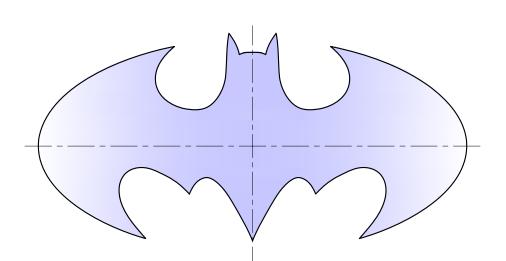
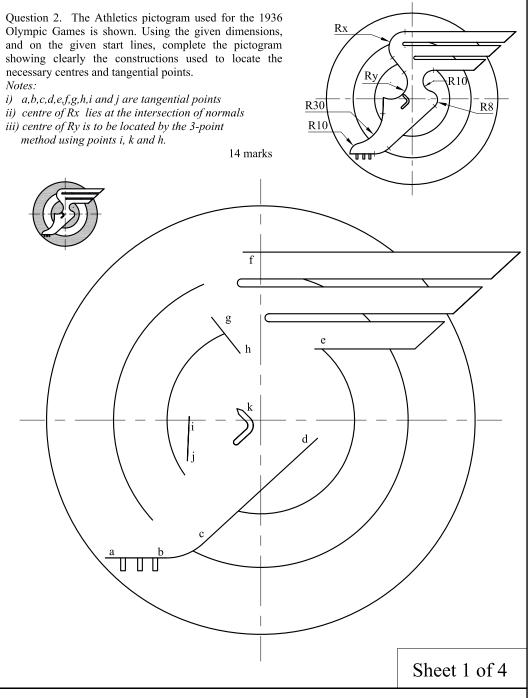
Question 1. The metallic Batman logo shown on the right is enclosed in an elliptical frame and has two fixing holes. In the space provided below, construct the elliptical frame having a major axis of 170 mm and a minor axis of 90 mm. The centres of the screwing holes are located on the focal points and have a radius of 4 mm.



10 marks



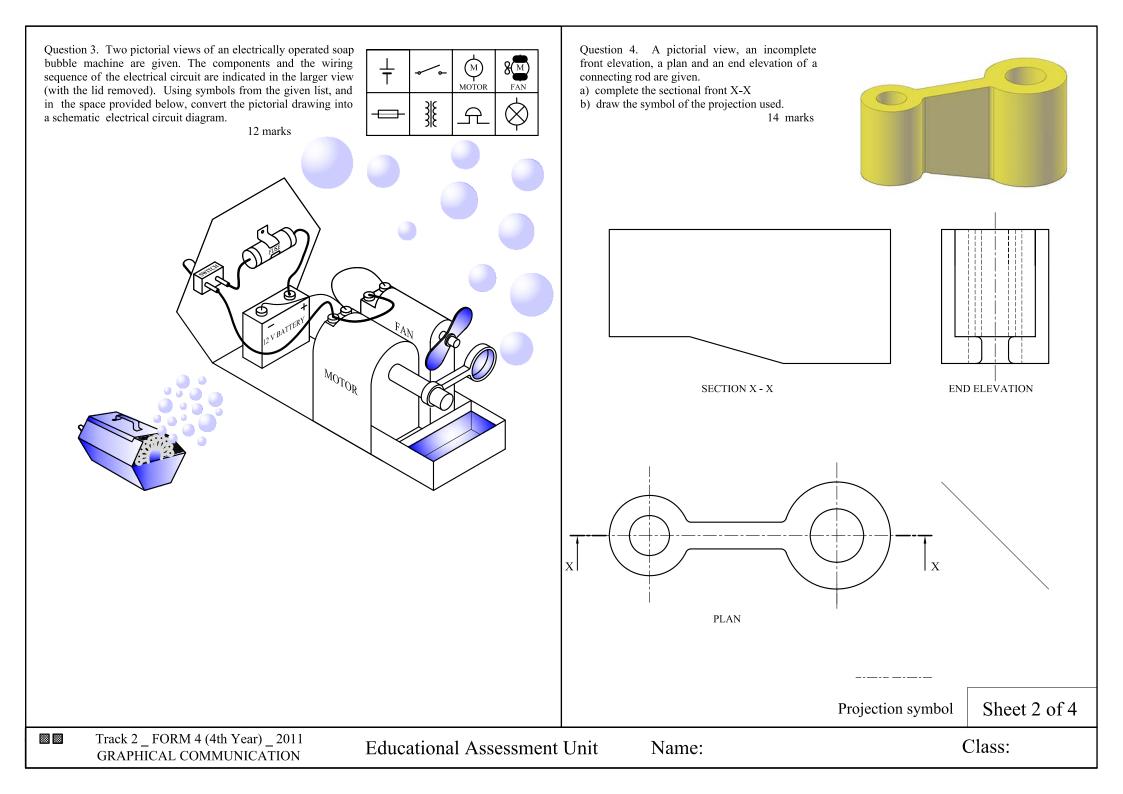


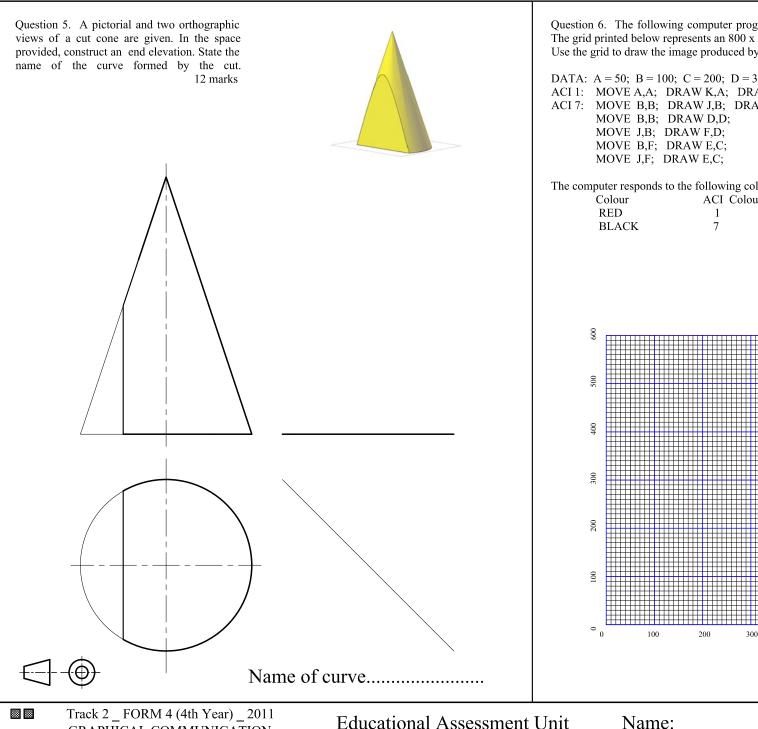
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Question 6. The following computer programme is written for the use of a particular computer icon. The grid printed below represents an 800 x 600 graphical display.

Use the grid to draw the image produced by this programme.

DATA: A = 50; B = 100; C = 200; D = 300; E = 400; F 500; G = 550; H = 600; J = 700, K = 750

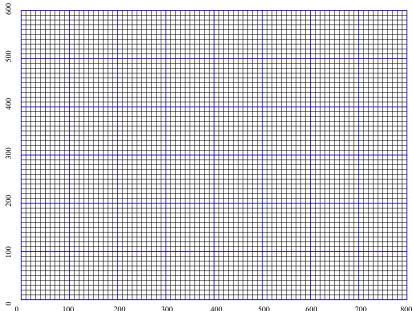
ACI 1: MOVE A,A; DRAW K,A; DRAW K,G; DRAW A,G; DRAW A,A;

ACI 7: MOVE B,B; DRAW J,B; DRAW J,F; DRAW B,F; DRAW B,B.

The computer responds to the following colour commands:

ACI Colour Index (Number)

12 marks



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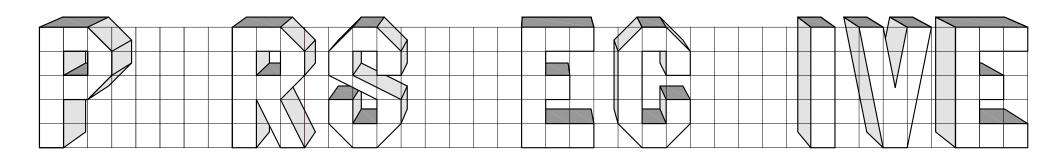
Question 7. An incomplete three dimensional representation of the word PERSPECTIVE is given below. Using the given font style, grid and vanishing point;

a) complete the letters E, P, and T.

b) render the letters to match the existing ones. *Leave all construction lines visible.*

12 marks



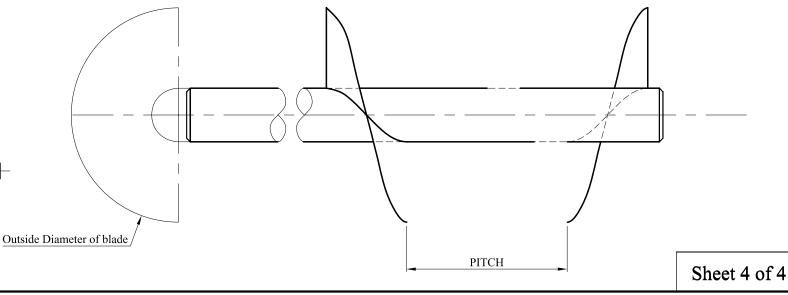


Question 8. The figure below shows a drawing of a concrete mixing tool which consists of two turns of a helical blade which turn around a shaft. The outside diameter of the blade and the pitch of the helix are given.

Using the given start lines, construct the missing turn of the helical blade. Leave all construction lines visible.

14 marks

Pitch



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