Section A

Answer all questions in this section.

A1 A darts team in a school has been recently formed. Fig. 1 shows a design of their logo.

Ellipse above A-A

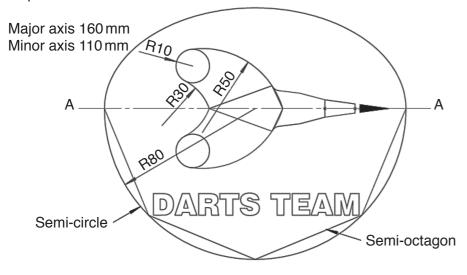


Fig. 1

Complete the full size view of the logo started on the right by:

(a) Drawing the semi-circle R80 below A-A.

(b) Constructing the semi-octagon inscribed in the circle. (c) Constructing the R30 and R50 arcs to be tangential

to the R10 circle above A-A.

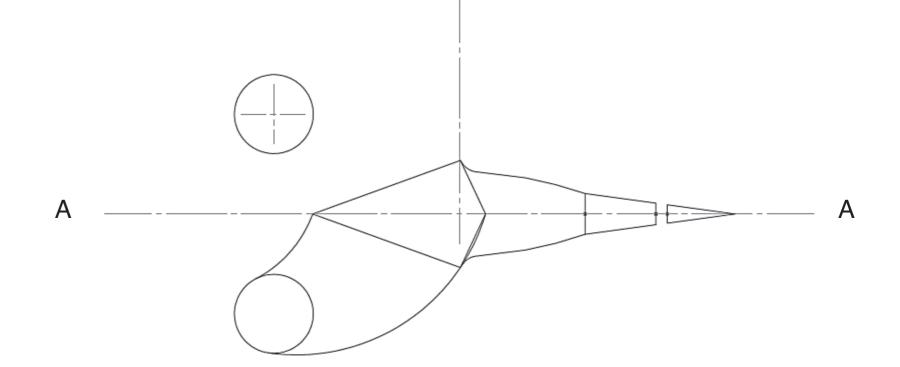
(d) Constructing the semi-ellipses above A-A.

[1]

[2]

[4]

[6]



A2 Complete the words DARTS TEAM by adding the **two** missing letters. All the letters must be to the same height, spacing and style as those given.

[4]







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1 hour

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A3 The darts team design was turned into a shield for a monument and displayed at the school using two stands to keep it upright shown in Fig. 2.

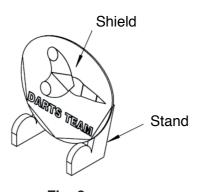
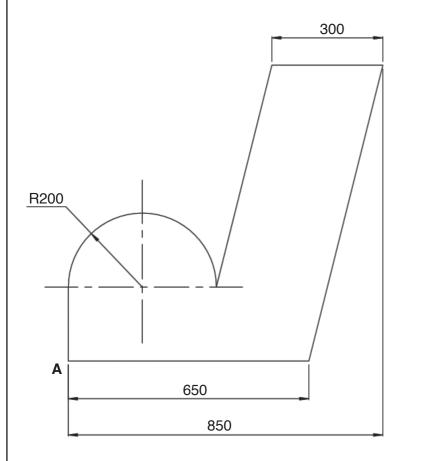


Fig. 2

Orthographic views of one of the stands is shown below.



In the space to the right draw a full size isometric view of the stand to a scale of 1:10. Use the foreground A for a start.

1 hour

800

100

[8]

Section B Answer either question B4 or B5. body **B4** Fig. 3 shows a darts container made from card to be presented to winners of a tournament. (a) From the given orthographic views draw a full size development (net) of the body of the container. Include a circular base and a gluing tab. [19] The starting line B-B has been drawn for you. Conical stand (b) The darts are to be held in a vertical position. In the box given on the right sketch a design of an insert to support three darts. Fig. 3 В В В Answer part (b) here. For Examiner's 6902/02 © ECESWA 2021 Oct/Nov 2021 1 hour Candidate's Number Candidate's Surname..... Other Names [Turn over

B5 Fig. 4 shows an isometric view of a trophy that was won by the darts team in a tournament.

Draw:

(a) A front elevation looking in the direction of FE.

Use the corner C to start the elevation. [15]

(b) An end elevation looking in the direction EE. [10]

