



**Kulleġġ San Nikola Skola Sekondarja tan-Naxxar**  
**St. Nicholas College Secondary School Naxxar**  
**Half-Yearly Examinations**  
**February 2016**

Track/Level

FORM 3 (3<sup>rd</sup> Year)    Subject: Graphical Communication    Time: 2 Hours

Name \_\_\_\_\_

Class \_\_\_\_\_

### Instructions

- Write your name and class on all sheets.
- Attempt **all** questions.
- Questions should be attempted on the pre-printed answer sheets provided
- All answers are to be drawn accurately with instruments, unless otherwise stated.
- All construction lines **MUST** be left on each solution to show the method used.
- Drawing aids may be used.

### Information

- All dimensions are in millimetres.
- Estimate any dimension not given.
- Marks will be awarded for accuracy, clarity, neatness and appropriateness of construction.

Question	1	2	3	4	5	6	7	Total
<b>Mark allocated</b>	<b>14</b>	<b>12</b>	<b>16</b>	<b>16</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>100</b>
<b>Marks awarded</b>								

**Question 1.**

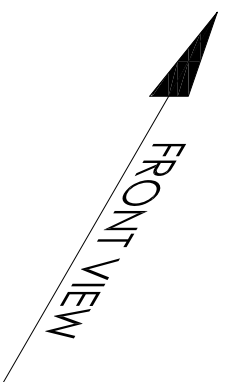
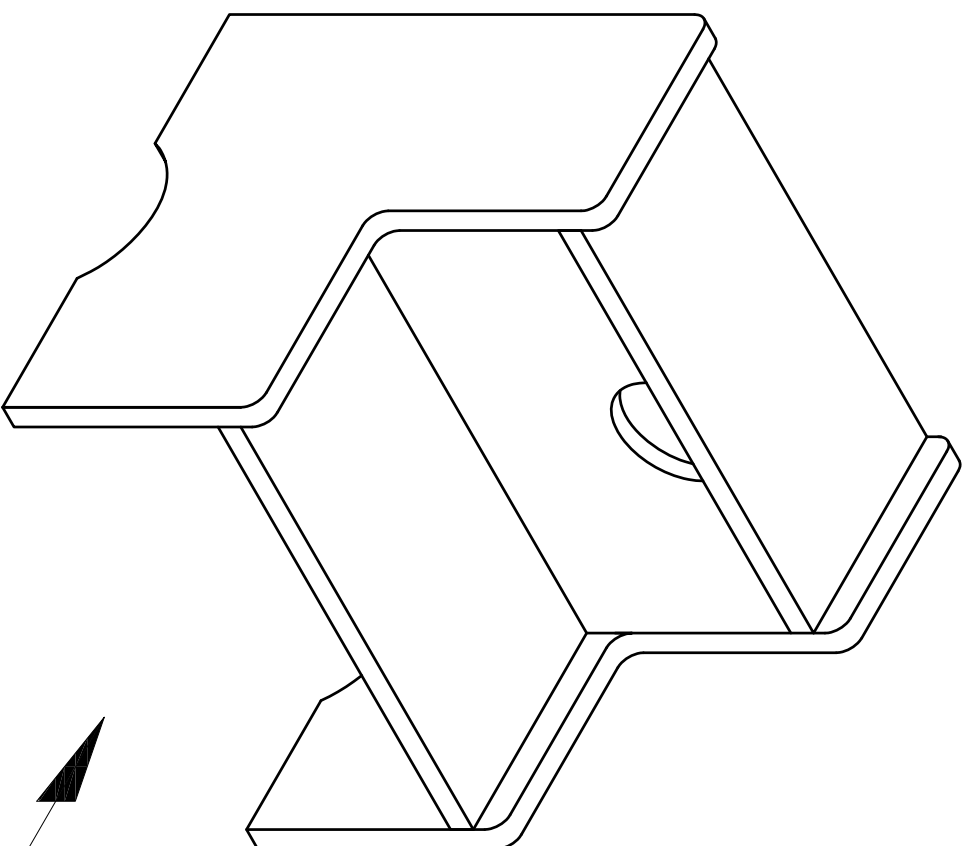
An isometric view of a **step stool** is shown below. Two orthographic views of the stool are given on the right.

In the space provided:

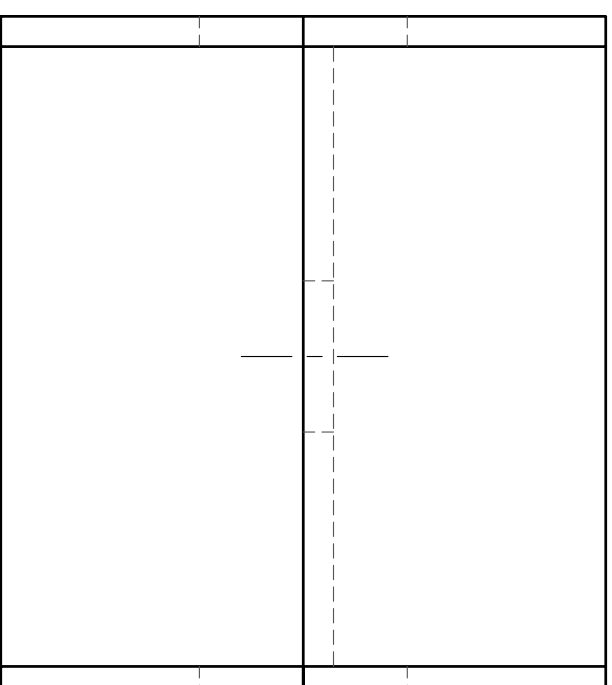
- i) Complete the **FRONT VIEW**.
- ii) Write the **projection angle** (1st or 3rd angle).
- iii) Draw the **projection symbol**.

**Note:** Include the hidden details.

**14 Marks**

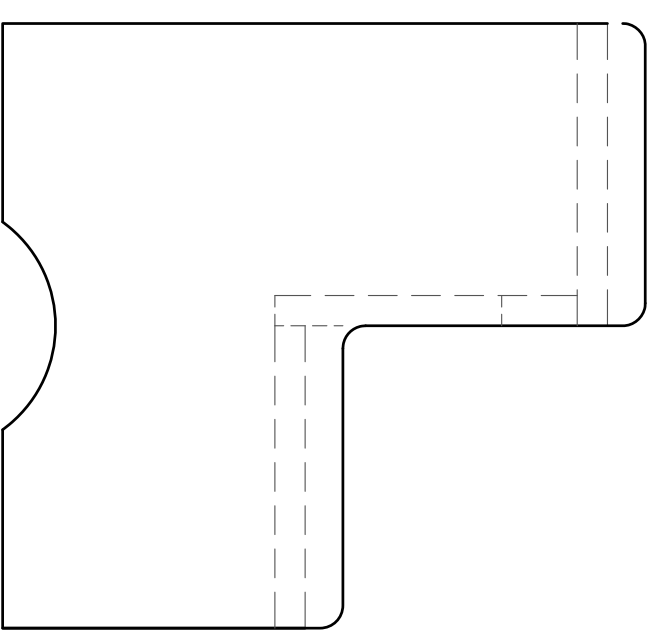


**FRONT VIEW**



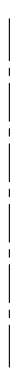
**PLAN**

**END VIEW**



\_\_\_\_\_ ANGLE PROJECTION

PROJECTION SYMBOL



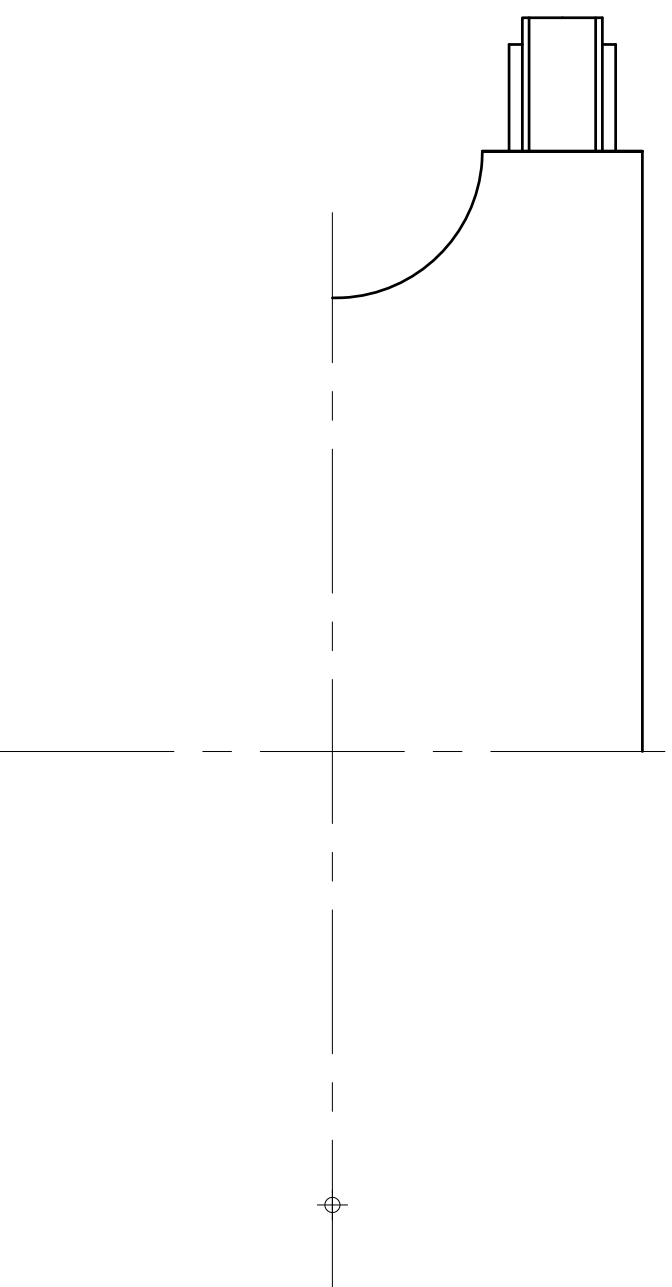
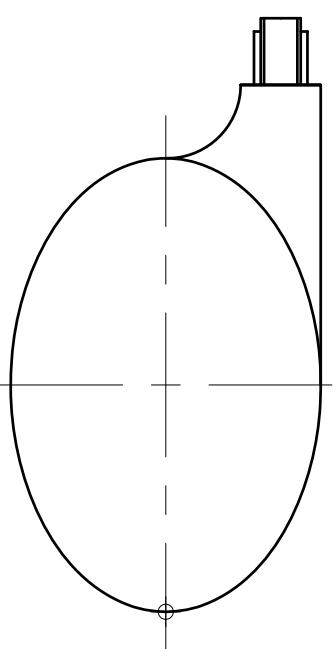
**Question 2.**

The drawing on the right the profile of a correction tape.

On the start lines provided **construct the elliptical part.**

Major axis = 120mm  
Minor axis = 82 mm

**12 marks**



**Question 3.**

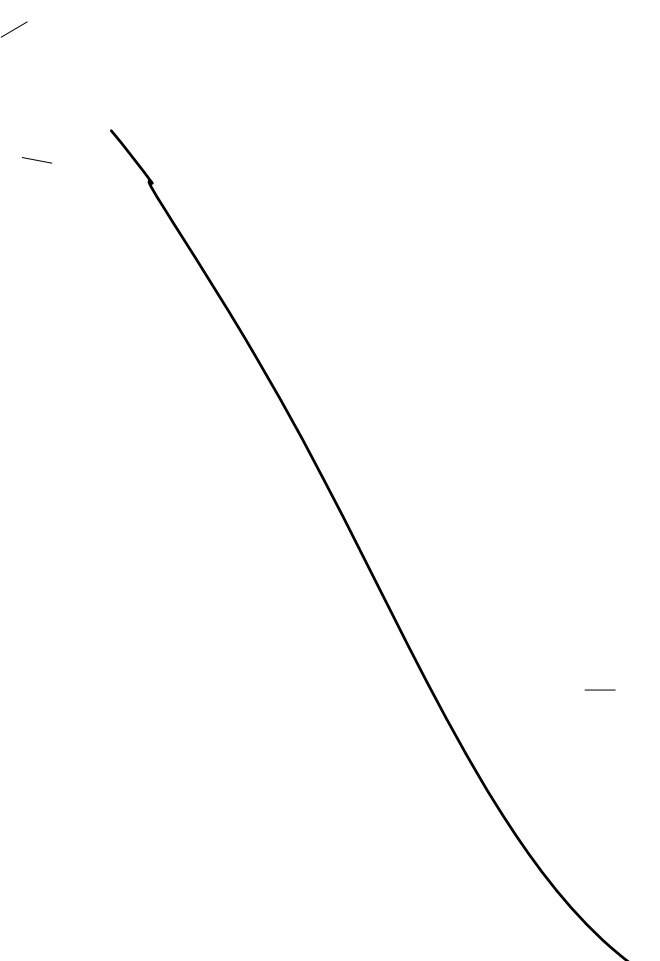
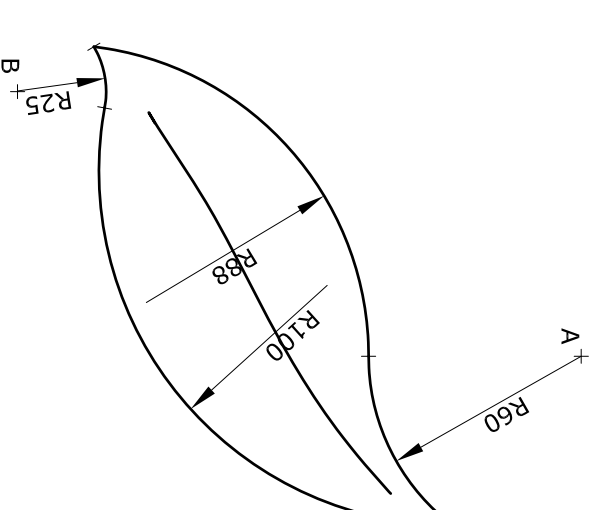
A logo is based on the profile of a leaf. The dimensioned profile of the logo is given.

Using the given start lines, **complete the profile** showing clearly the constructions used to locate the centres and points of tangencies.

**Notes:**

- Points A and B are centres of arcs.
- Points of tangency/contact are marked with small dashes.
- Draw the R60 arc (from centre A).
- Draw the R25 arc (from centre B).
- Locate the centre of and draw the R100 arc.
- Locate the centre of and draw the R88 arc.

**16 marks**



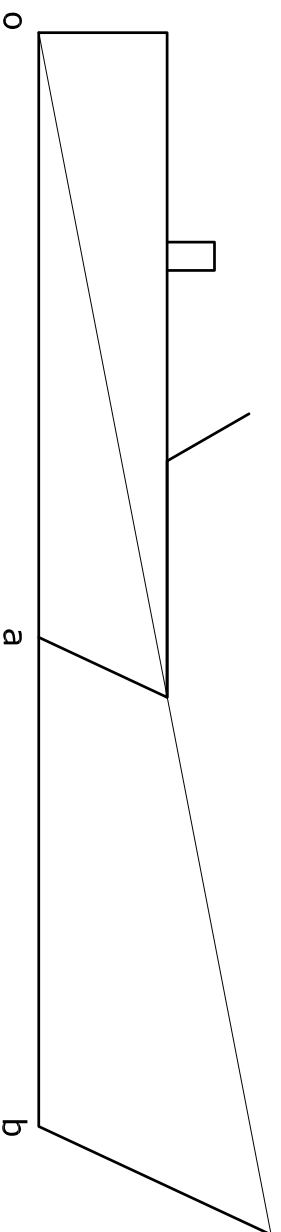
**B +**

**Question 4.**

Below a pictogram of a boat is given. **By using the radial method, enlarge the pictogram** such that **oa** increases to **ob**.

**Note:** Use 'o' as the pole.

**16 marks**



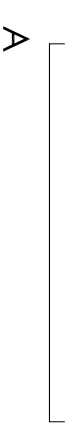
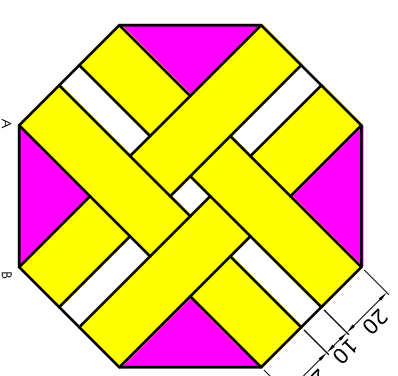
**Question 5.**

The drawing on the right shows the elevation of a **decorative pattern**.

On the given start lines complete the drawing by:

- i) constructing the **octagon** starting from base AB.
- ii) completing the **pattern** as shown.
- iii) shade your **pattern** with colours.

**14 marks**



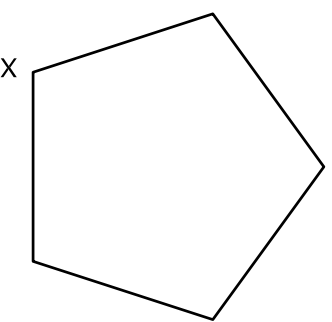
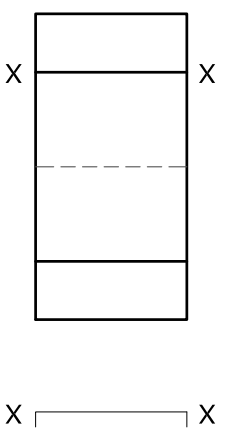
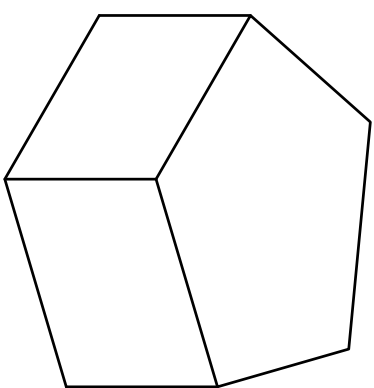
**Question 6.**

The packaging for a new game is in the form of a **pentagonal prism**. The front elevation and plan are given below.

**Construct the surface development.**

**Notes:** - X-X is the start line for the development.  
- Include the bottom and the lid.

**14 marks**



**Question 7.**

The **logo for a new company is shown** on the right.

Construct the logo by using the given dimensions.

**Notes:**

- Start by drawing the outer triangle. Point 'Y' is the starting point of the triangle.
- Then, draw the inner part.
- Continue with drawing the letter 'I'.

**14 marks**

