SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

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	SCHOOL ANNUAL EXAMINATI		43.		
Direct	orate for Quality and Standards in Education	•	12		
	Educational Assessment Unit				
FORM 3 (3 rd Year)	GRAPHICAL COMMUNICATION	TIME: 2 hours	13		

NAME:	CLASS:

Instructions

- Write your name and class on all sheets.
- Attempt **ALL** questions.
- 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 and appropriateness of construction.

Question	1	2	3	4	5
Max. mark	36	15	15	16	18
Mark					

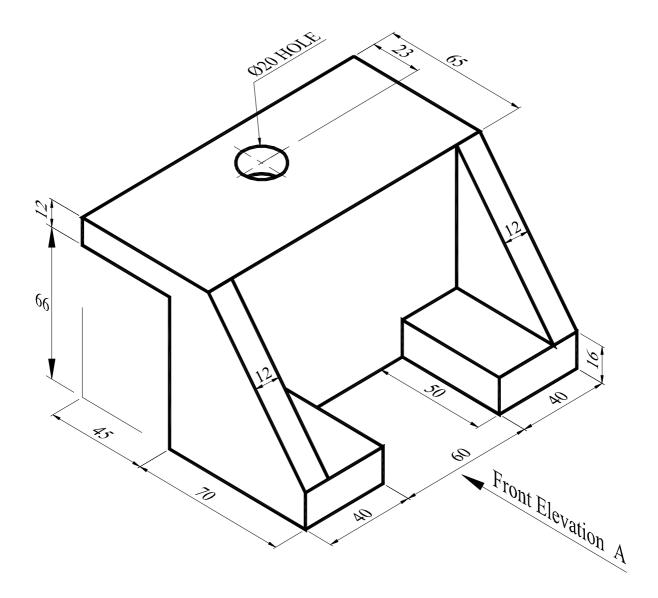
1. The figure below shows a pictorial view of a **BRACKET**. Draw, in **first angle orthographic projection**, the following views:

Student Bounty Com a front elevation from arrow 'A'. (a) a complete plan. (including hidden detail) (b)

Note: (i) Show the scale used. 2 marks

Draw the symbol of projection used. 2 marks (ii)

Total 36 marks



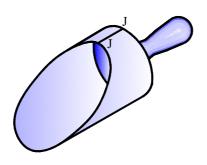
2. The pictorial view, shown below, shows a sugar scoop made from thin sheet metal and a wooden handle.

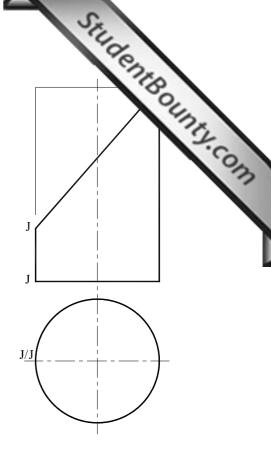
A front elevation and a plan of the cylindrical part of the scoop are also given.

Construct a one piece development of the scoop assuming the joint to be along **JJ**.

Show all construction lines.

15 marks





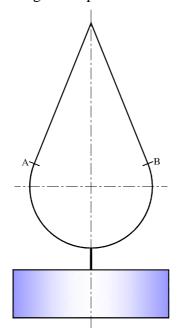
3. Three orthographic views of a stepped arched doorway are given.
Using the given start lines and taking the dimensions from the given views on the starter sheet, convert full size, the drawing to an **Isometric view.**Position corner **X** to be the lowest point in your drawing.

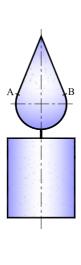
15 marks

4. The flame of the logo of a candle factory consists of a part circle and two tangents as shown below.

Using the given start lines draw:

- (a) the part circle **A** and **B** and having a 45mm radius.
- (b) the two tangents at points $\mathbf{A} \mathbf{B}$ forming the straight part of the flame.





16 marks

5. The diagram below shows part of the outline of a drawing. Using instruments, complete a full size drawing of the given view. Clearly show constructions for the location of all compass drawn arcs.

18 marks

