

## MARKING SCHEME DRAWING AND DESIGN Form 1

- 1. State six different drawings commonly used in different engineering fields. (6mks)
- Building drawings
- Architectural drawings
- Machine drawings

- Electrical drawings
- Marine drawings
- Sheet metal drawings
- 2. a)State any four methods of mounting drawing paper on drawing board surface. (4mks)
  - Magnetic strip

Tapes

Clips

plasticine

b)List three factors that contribute to quality drawings (3mks)

Cleanliness

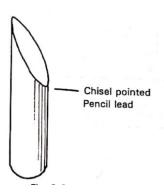
Maintenance of the drawing instruments

- Proper use of the instruments
- Explain how technical drawing can assist you as a person in future.

(4mks)

- Express ideas through the use of freehand sketching and technical drawings;
- Read and interpret working drawings;
- Distinguish between good and bad design;
- Appreciate the constraints involved in designing;
- Find solutions to design problems;
- Make simple models using available materials;
- Demonstrate an awareness of the career opportunities available in the related areas of technical education and training.
- 4. a) state the importance of using quality pencils in producing drawings. (1mks)
- produces neat and accurate work
  - b) Illustrate how H pencil is sharpened.

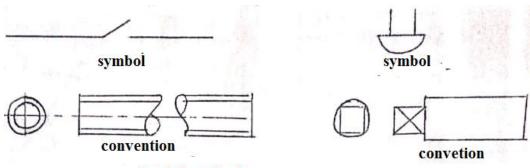
(1Mrk)



c) Give one reason why the tip of the rubber should be chisel shaped or sharp. (1Mks)



- To facilitate erasing only un wanted lines
- 5. Indicate whether each of the following drawings is a convention or a symbol (2mks)



1/2 mark @ x 4= 2marks

- List four factors to be considered during a design process.
- Appearance /aesthetics
- Cost of the project

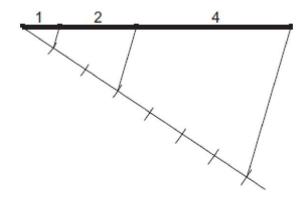
- Availability of raw materials
- Functionality
- Life expectancy
- Maintenance cost

(4mks)

- 7. Use sketches to differentiate between leader line and extension line. (2mks)Leader line leader line= 1 mark extension line= 1 mks TOTAL 2 MARKS

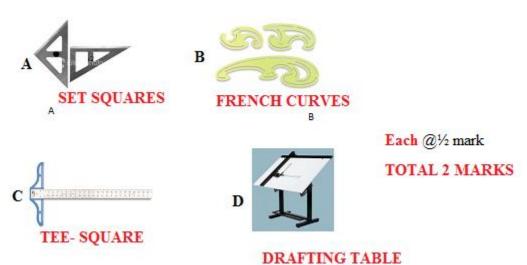
extension line

8. Draw a line 98mm long and subdivide proportionally into seven equal portions in a ratio of 1:2:4 (4mks)



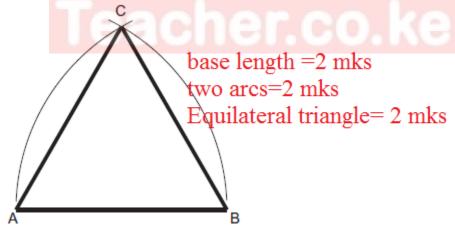


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- 10. List three disadvantages of using masking tape to mount drawing papers. (3mks)
  - Discolor The Drawing Paper
  - Peels Drawing Paper
  - Expensive
- 11. Construct an equilateral triangle whose length of sides being 60mm

(6mks)



12. State three functions of a pair of compass.

(3mks)

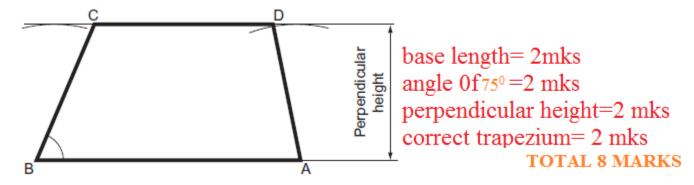
- Drawing arcs
- Drawing circles
- Transferring distances
- 13. List three factors that contribute to quality drawings

(6mks)

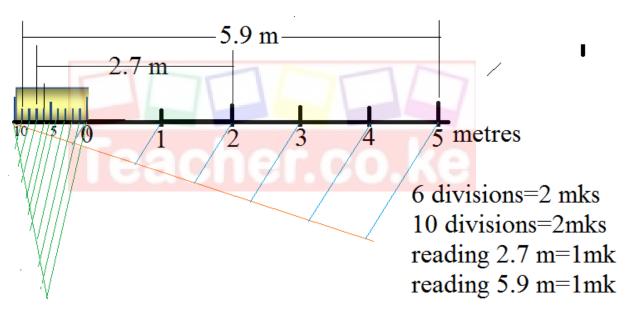
- Proper Use Of Drawing Instruments
- Maintenance Of The Instruments
- Cleanliness



14. Draw a trapezium whose base length is 70mm,two parallel sides are 55mm apart and one included angle being 75°. (8mks)



15. Draw a scale 1 cm represent 1metre, to measure maximum distance of 6 m. Show on it a distance of 5.9 m and 2.7 metres. (6 marks)





16.	Name	the	fol	low	ing	sym	bol	ls
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(4mks)

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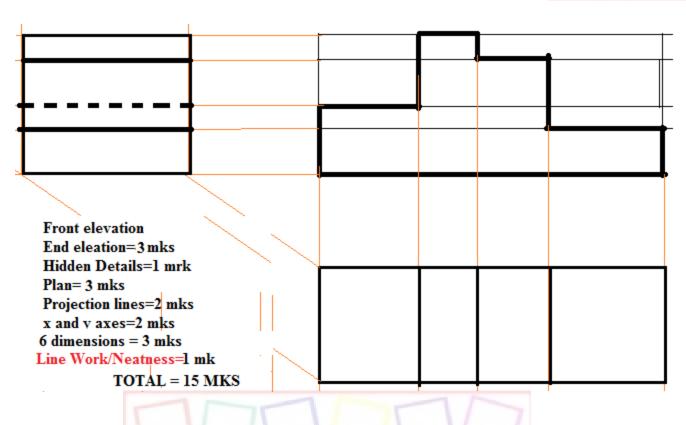


III.	$\emptyset$
	DIAMETRE

IV.	C/CCENTRE TO	О
	CENTRE	

- 17. Draw the following views of the isometric block shown below in first angle orthographic projection. (15mks)
  - a. Front Elevation in the direction of arrow A
  - **b.** End elevation in the direction of arrow B
  - c. The plan.
  - **d.** Insert six main dimensions.





18. Three views of a machine component are shown below. Draw the figure in isometric projection. (15 marks)



