
	INDIAN SCHOOL AL WADI AL KABIR		
Class: XI	Department: SCIENCE 2024 – 25 SUBJECT: ENGINEERING GRAPHICS	Date of submission:30.04.2024	
Worksheet No: 1 WITH ANSWERS	UNIT 1: RECTILINEAR FIGURES	Note: A4 FILE FORMAT	
NAME OF THE STUDENT	CLASS & SEC: XI C/G	ROLL NO.	

MULTIPLE CHOICE QUESTIONS

1. To show the hidden edges which type of line is used?
 - a) Continuous thick line
 - b) Centre line
 - c) Dashed line
 - d) Hatching line

2. In Metric system the standard-length measure is -----
 - a) Yard
 - b) Meter
 - c) Centimeter
 - d) Millimeter

3. Continuous thick line is used to denote -----
 - a) Visible edges
 - b) Axis line

c) Leader line

d) Projection line

4. The axis of a circle is denoted by which type of lines-----

a) Continuous thick lines

b) Centre line

c) Continuous thin lines

d) Double dashed lines

5. Mini drafter is a combination of -----

a) Scale and compass

b) Compass and divider

c) Scale and protractor

d) Protractor and compass

6. In an equilateral triangle all angles are equal to -----

a) 45 degree

b) 60 degree

c) 90 degree

d) 120 degree

7. The size of a A2 drawing sheet is -----

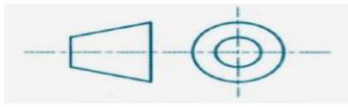
a) 841 x 1189

b) 594 x 841

c) 420 x 594

d) 210 x 297

8. Identify the symbol of first angle projection



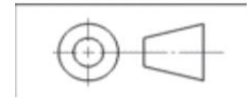
a)



b)

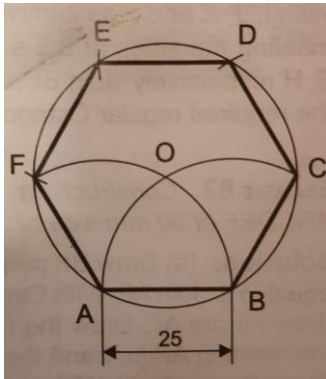


c)



d)

9.



Identify the polygon in the given figure?

- a) Pentagon
- b) Hexagon
- c) Octagon
- d) Trapezium

10. Match the LIST I with LIST II

List I – Name of the figure	List II – No: of sides
1. Triangle	i.5
2. Pentagon	ii.4
3. Square	iii.8
4. Octagon	iv.3

- a) 1-iii, 2-iv, 3-i, 4-ii
- b) 1-i, 2-iii, 3-ii, 4-iv
- c) 1-iv, 2-i, 3-ii, 4-iii
- d) 1-ii, 2-i, 3-iv, 4-iii

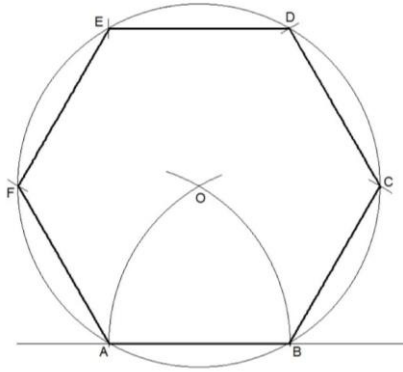
DESCRIPTIVE TYPE QUESTIONS

1. Construct a regular hexagon on a base line of 40 mm.
2. Construct a Right-angled Triangle ABC, having its hypotenuse AC = 60 mm and altitude AB = 40 mm.
3. Construct an Isosceles Triangle QPR, having each of its sides = 50mm and base = 40 mm.
4. Construct an equilateral triangle of 40 mm sides.
5. Construct a Triangle ABC, having its base BC=50mm, side AB=40mm, side AC=60mm.
6. Construct a rectangle ABCD having its base AB = 60 mm and its side AD = 40 mm.
7. Construct a Trapezion or Kite ABCD, having its diagonal AC = 50mm, its adjacent sides AD and AB each equal to 30mm and CD and CB equal to 40mm.
8. Construct a regular pentagon with base side = 30 mm.
9. Construct a square of 50 mm sides.
10. Divide a straight-line AB, proportionate to seven equal parts.

ANSWER KEY – MULTIPLE CHOICE QUESTIONS	
1	c. Dashed lines
2	b. Meter
3	a. Visible edges
4	b. Centre lines
5	c. Scale and protractor
6	b. 60 degree
7	c. 420 X 594
8	a.
9	b. Hexagon
10	c. 1-iv, 2-i, 3-ii, 4-iii

Answers – Descriptive Type Questions

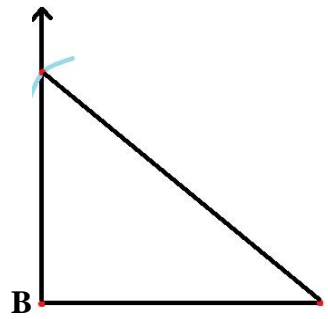
1.



(Hint: On a base line AB cut arcs equally with 30 mm and draw a circle with center O and radius OA, cut arcs equally on the circle, join all points.).

2.

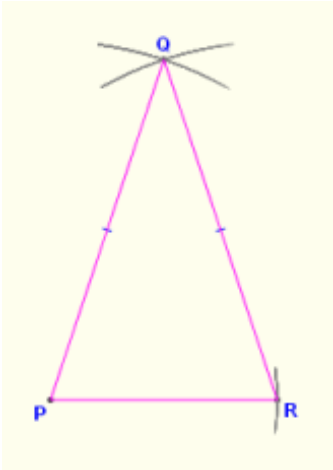
A



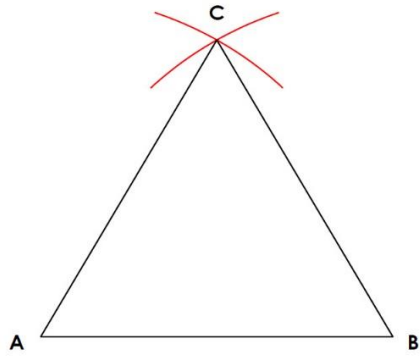
B C (Hint: construct perpendicular from B, $AB = 40$, $AC = 60$)

3.

(Hint: $QP = QR = 50 \text{ mm}$, $PR = 40 \text{ mm}$)

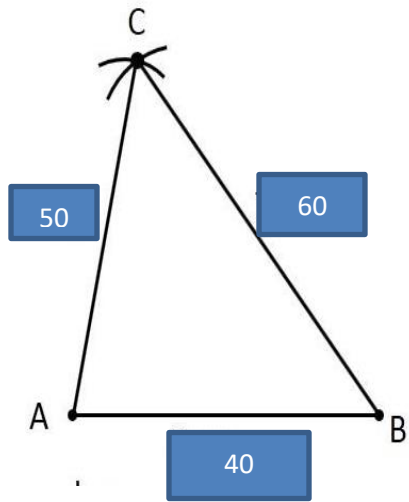


4.



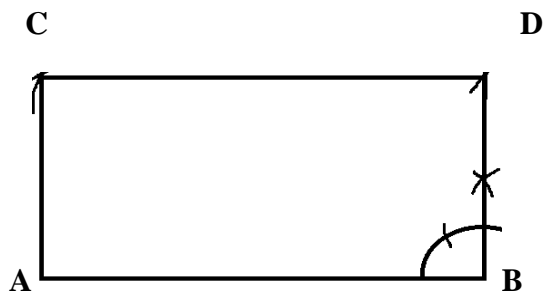
(Hint: $CA = AB = CB = 40 \text{ mm}$)

5.



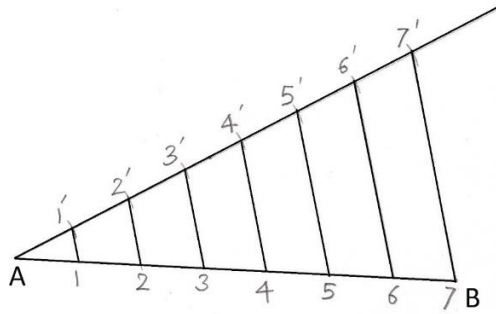
(Hint: $AB = 40$, $AC = 50$, $BC = 60$, using compass)

6.



(Hint: $AB = 60$, $AD = 40$, Construct perpendicular from both points A and B).

10.



(Hint: Using Copy angle method)

PREPARED BY Ms AISWARYA DEEPTHI P	CHECKED BY HoD SCIENCE
--------------------------------------	---------------------------
