



INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: SCIENCE	Date: 24/05/2026
MARKS: 30	UNIT TEST 1 <u>ENGINEERING GRAPHICS (046)</u> <u>MARKING SCHEME</u>	DURATION :1 HOUR

General Instructions:

- (i) Attempt all the questions.
- (ii) Use both sides of the drawing sheet, if necessary.
- (iii) All dimensions are in millimeters.
- (iv) Missing and mismatching dimensions, if any, may be suitably assumed.
- (v) Follow the SP: 46 – 2003 revised codes. (with first angle method of projection)

10 × 1 = 10

SECTION – A

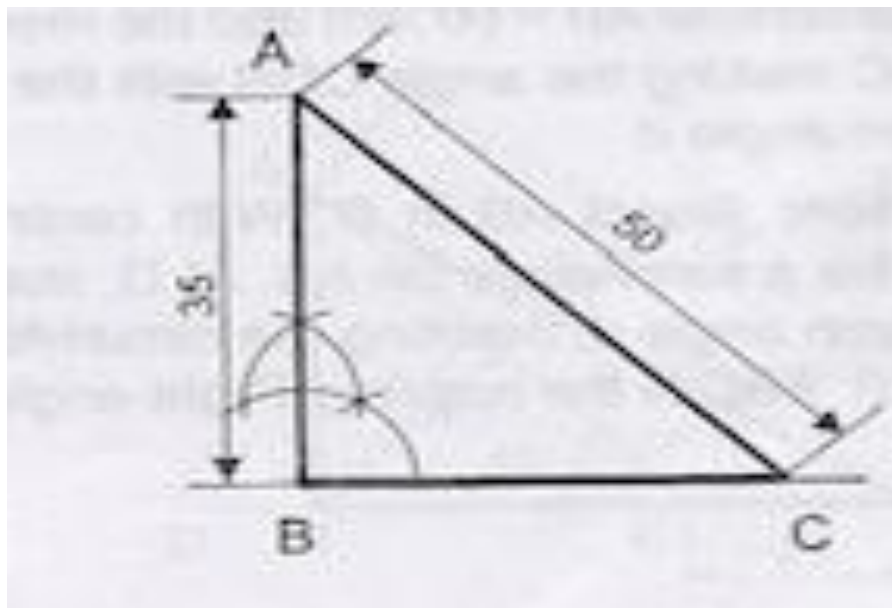
Q.NO	ANSWERS
1	(c) continuous thin lines
2	(d) circumscribed
3	(a) Obtuse angle
4	(a) Hidden line
5	(a) Unidirectional system
6	(a) Pentagon
7	(c) 1-iii, 2-i, 3-iv, 4-ii

8	(b) 140 mm
9	(a) 879 mm
10	(c) 1/4

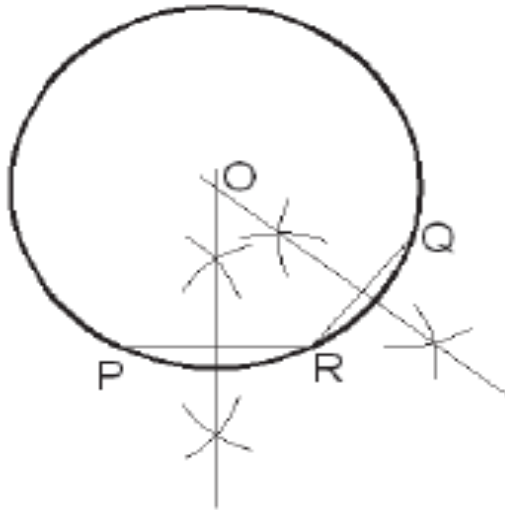
SECTION B

$2 \times 2 = 4$

11. Construct a right-angled triangle ABC, having its altitude BA equal to 35 mm and its hypotenuse AC equal to 50 mm.

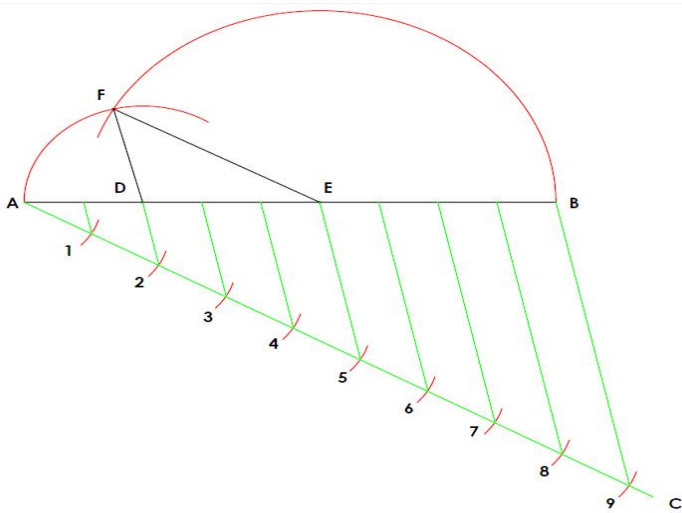


12. Given the arc PQ, complete the circle.

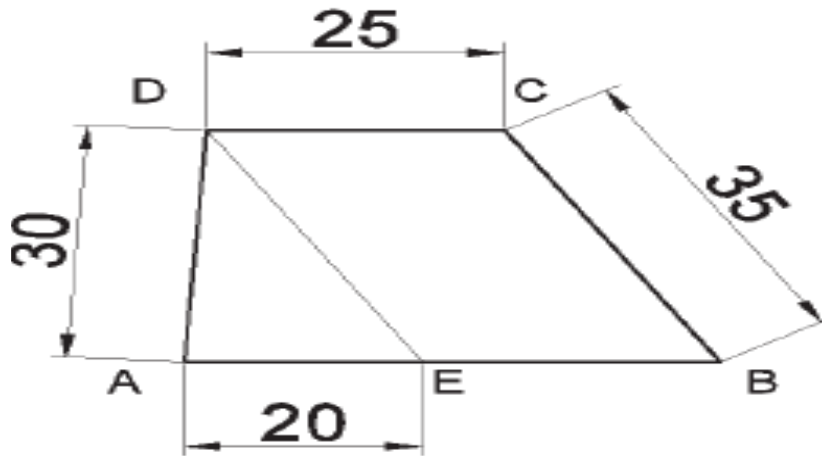


$2 \times 3 = 6$

13. Construct a triangle FDE having its perimeter AB equal to 95 mm and its sides in the ratio 2:3:4.

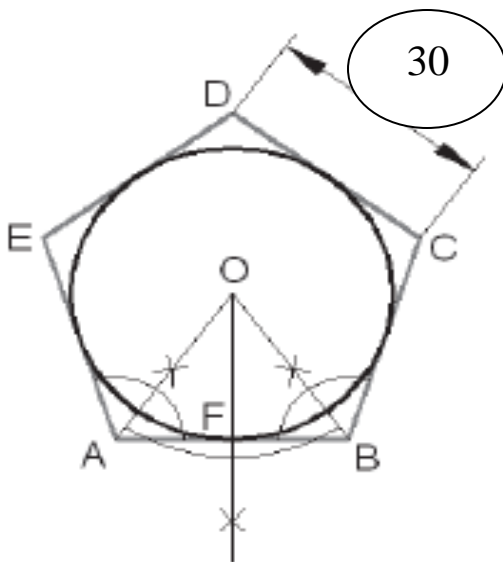


14. Construct a trapezium ABCD, having its sides AD = 30 mm, DC = 25 mm, CB = 35 mm and the difference of parallel sides is 20 mm.



$$2 \times 5 = 10$$

15. Construct a regular pentagon with base AB = 30 mm using a protractor, and now inscribe a Circle in it.



16. Construct a regular hexagon of 30 mm sides using compasses.

