



INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: SCIENCE	Date: 04/06/2024
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 x 1 = 10

SECTION – A

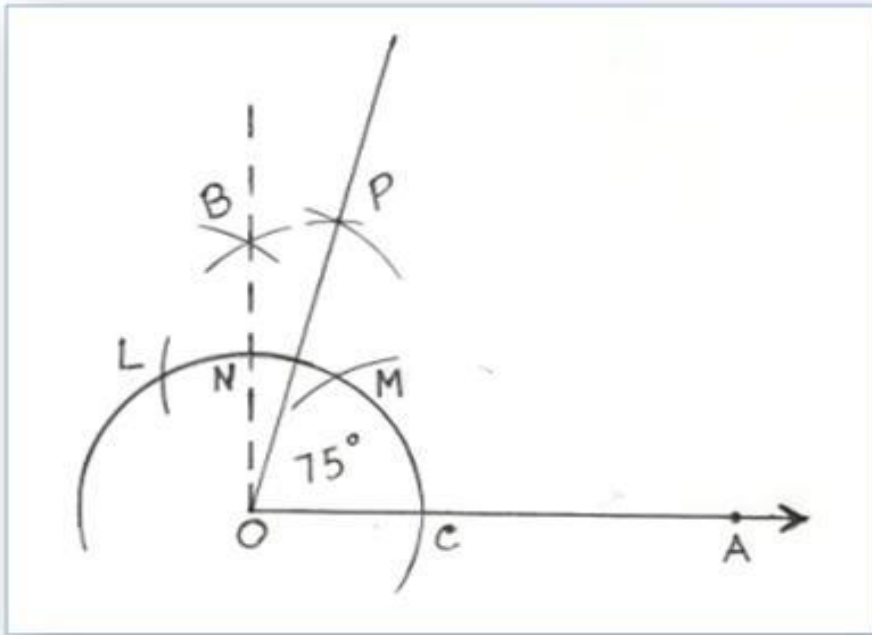
Q.NO	ANSWERS
1	c) Millimeters
2	b) $\frac{1}{2}$ of diameter of a circle
3	d) Full size scale

4	a) Dashed line
5	b) Trapezion
6	b) Square
7	a) 1-iii, 2-iv, 3-i, 4-ii
8	b) Rhombus
9	c) inscribing of circles
10	d) Compasses

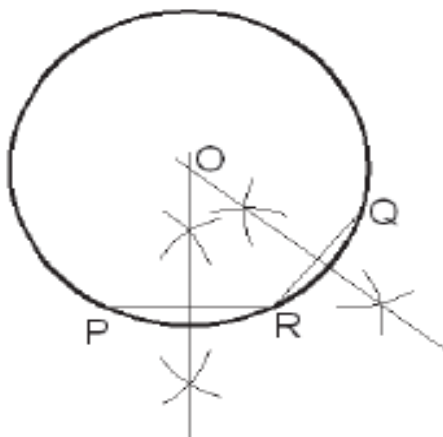
SECTION B

$$2 \times 2 = 4$$

11. Construct a 75-degree angle using compasses.

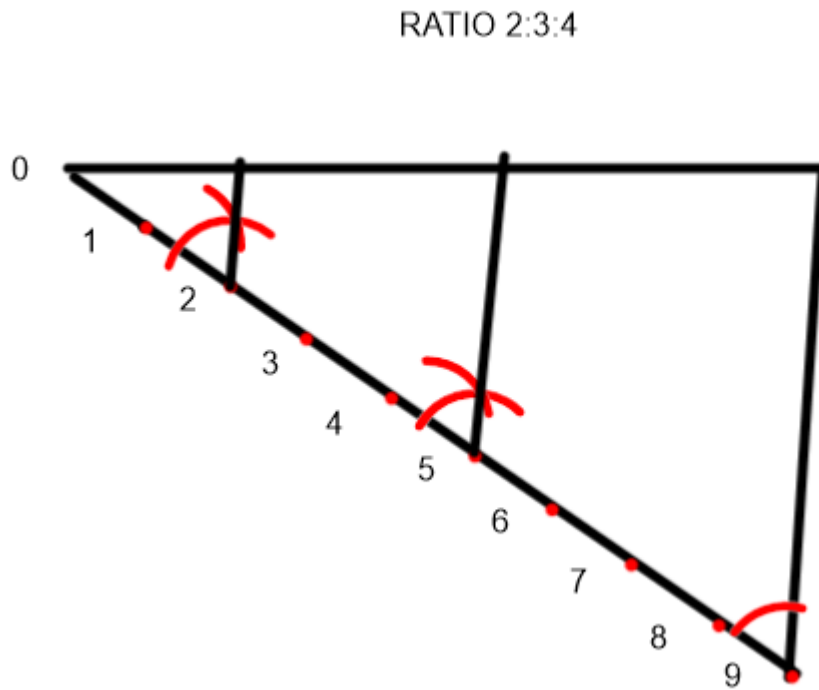


12. Given arc PQ, complete the circle. (arc PQ of any radius).

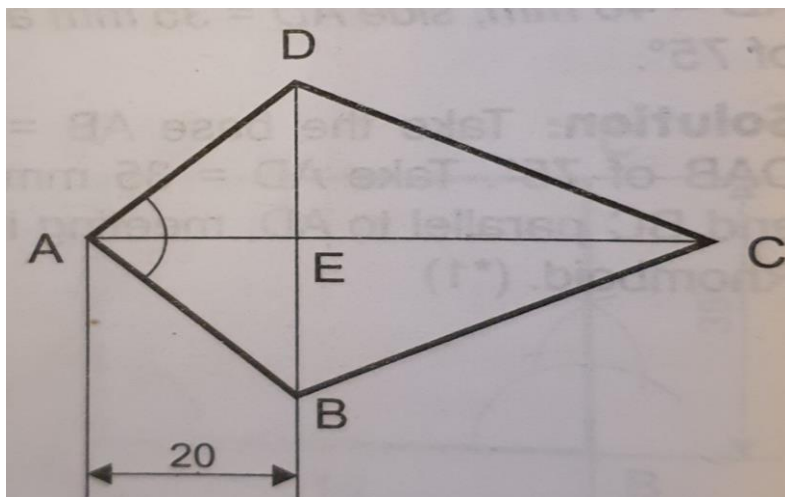


$$2 \times 3 = 6$$

13. Divide a straight line in the ratio 2:3:4

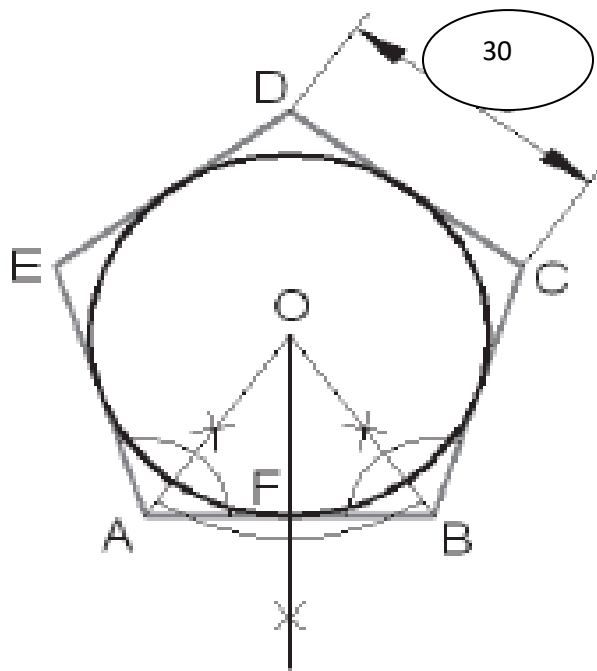


14. Construct a trapezium ABCD, having AE the difference of its diagonals, equal to 20 mm.



$$2 \times 5 = 10$$

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



16. Construct a regular hexagon of 40 mm using compasses.

