

SA1 PRACTICE PAPER

Time : 1 Hr

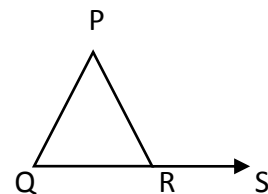
9th standard- Mathematics

Marks : 30

I. Choose the correct answer :

1X18=18

- The decimal expansion of irrational number is _____
a) Terminating b) Non terminating
c) Non terminating non recurring d) either terminating or recurring
- Every rational number is a _____ number
a) Real b) whole c) Natural d) Positive
- The degree of the polynomial $x^3 - 5x^2 + 6x^4 - 3x + 5$ is _____
a) 3 b) 2 c) 4 d) 1
- The Zero of the polynomial $2x - 6$ is _____
a) 2 b) 3 c) -3 d) -2
- Coordinates of the origin are _____
a) (0,0) b) (1,1) c) (2,2) d) (-1,+1)
- The name of horizontal line drawn to determine the position of any point in the Cartesian plane
a) Y- axis b) X- axis c) X and Y axis d) None
- According to Euclid, boundaries of the surfaces are _____
a) Lines or curves b) lines or planes c) planes or curves d) none of these
- Two angles whose sum is 180° are called _____ angles.
a) Acute angles b) obtuse angles c) Supplementary angles d) complementary angles
- In a $\triangle ABC$ $\angle A$ is the largest angle, then the longest side is _____
a) AB b) BC c) CA d) BA
- Each angles of an equilateral triangle is equal to _____
a) 50° b) 180° c) 100° d) 60°
- A quadrilateral in which only one pair of opposite sides are equal is called _____
a) Parallelogram b) Trapezium c) Square d) Rectangle
- "It is raining here" the statement is _____
a) True b) False c) Ambiguous d) none of the above
- If two circles are equal, then their radii are _____
- In $\triangle ABC$ and $\triangle PQR$, $AB=PQ$, $BC=QR$ and $\angle P = \angle Q$. The criterion used for the congruency of two triangles is _____
- The point (-2,3) lie on _____ quadrant.
- In the figure, $\triangle PQR$ is an equilateral triangle, then $\angle PRS =$ _____



- The sum of the angles of a quadrilateral is _____
- The sum of two even numbers is even : True/False
- Write any four rational numbers between $\frac{1}{7}$ and $\frac{2}{7}$

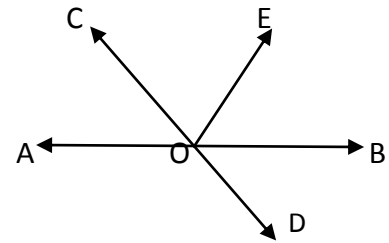
2X6=12

20. Find the remainder when x^3+3x^2+3x+1 is divided by $x+1$

21. if a point C lies between two points A and B such that $AC=BC$, then prove that $AC=\frac{1}{2}AB$.

22. In the fig. $\angle AOC + \angle BOE=70^\circ$ and $\angle BOD=40^\circ$

Find $\angle BOE$ and reflex angle $\angle COE$



23. In $\triangle ABC$, AD is the perpendicular bisector of BC. Show that $\triangle ABC$ is an isosceles triangle in which $AB=AC$.

24. The angles of quadrilateral are in the ratio. 3:5:9:13. Find all the angles of the quadrilateral.
