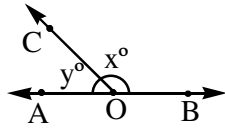


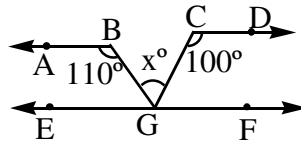
10. Two complementary angles are in the ratio 3 : 2. The larger angle measure is []
 1) 36° 2) 90° 3) 54° 4) 60°

11. AOB is a straight line and $4x = 5y$. The value of x is []
 1) 100°



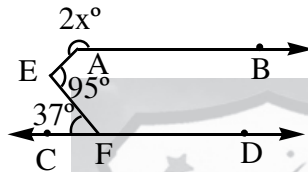
- 2) 105°
 3) 110°
 4) 115°

12. In figure $AB \parallel CD \parallel EF$, $\angle ABG = 110^\circ$, $\angle GCD = 100^\circ$ and $\angle BGC = x^\circ$ the value of x is



- 1) 35°
 2) 50°
 3) 30°
 4) 40°

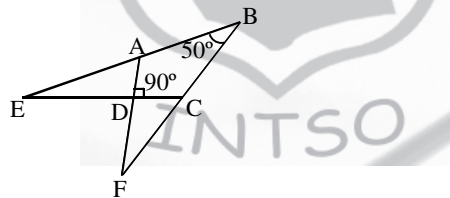
13. If $AB \parallel CD$. Then the value of x is []



- 1) 122
 2) 238
 3) 58
 4) 119

14. If PR is a straight line and $\angle PQS : \angle SQR = 7 : 5$ the measure of $\angle PQS$ is []
 1) 75° 2) 105° 3) 85° 4) 135°

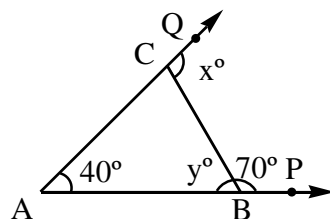
15. In the adjacent figure BA and BC are produced to meet CD and AD produced in E and F. Then $\angle AED + \angle CFD$ is []



- 1) 80°
 2) 50°
 3) 40°
 4) 160°

16. One of the acute angles of a right angled triangle is 58° the other acute angle is []
 1) 52° 2) 42° 3) 32° 4) 58°

17. In figure the measures of some of the angles are indicated the value of x is []



- 1) 150°
 2) 110°
 3) 70°
 4) 90°

18. The hypotenuse of a right angled triangle is 13 cm. One of the remaining two sides is of length 5 cm the length of the other side is []

- 1) 12 cm 2) 18 cm 3) 8 cm 4) 7 cm

19. A ladder 15m long reaches a window which is 9m above the ground of one side of a street . Keeping its foot at the same point the ladder is turned to other side of the street to reach a window 12m high the width of the street. []

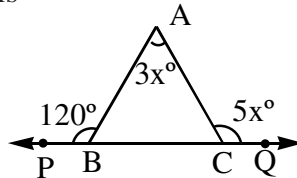
1) 12m 2) 9m 3) 21m 4) 20m

20. A man goes 10m due east and 24m due north. The distance of man from the starting point is []

1) 24m 2) 34m 3) 26m 4) 22m

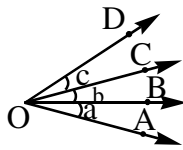
21. In figure the value of X is []

1) 20°
2) 30°
3) 40°
4) 25°



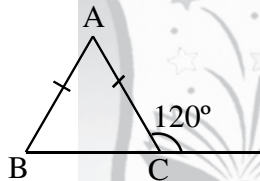
22. In figure $a = b = c$ name the angle which is congruent to $\angle AOC$ []

1) $\angle AOB$
2) $\angle BOC$
3) $\angle COD$
4) $\angle BOD$



23. In figure $AB = AC$ and $\angle ACD = 120^\circ$ then $\angle A =$ []

1) 120°
2) 60°
3) 50°
4) 70°



24. The number of lines of symmetry of a rectangle has? []

1) 3 2) 2 3) 4 4) 6

25. Two poles of heights 6m and 11m stand vertically on a plane ground. If the distance between their feet is 12m the distance between their tops is []

1) 13 m 2) 14m 3) 15m 4) 12.8m

26. In $\triangle ABC$ $\angle ACB = 120^\circ$ and $\angle CAB = 40^\circ$ AC is extended to P such that $AP = AC + 2CB$. The measure of $\angle ABP$ is []

1) 60° 2) 120° 3) 110° 4) 100°

27. The remainder when the number $(2 \times 3 \times 4 \times 2007 \times 2008 \times 2009) - 2008$ is divided by 2009 is []

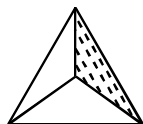
1) 0 2) 2008 3) 1 4) 2007

28. ABC is an isosceles triangle with $AB = AC = 2008$ cm. ADC is drawn as an equilateral triangle on AC outside $\triangle ABC$, AD is parallel to BC. The bisector of D meets AB in E (say). Then BE is equal to []

1) 1004 cm 2) 2008 cm 3) 0 4) 502 cm

29. A triangular pyramid shown in figure has how many edges []

1) 6
2) 4
3) 5
4) 3



30. Number of curved edges of a cylinder has []
 1) 0 2) 2 3) 1 4) 3
31. The area in square meters of the parallelogram whose base is 5 cm and altitude 4.2 cm is []
 1) 21 cm² 2) 22 cm² 3) 11 cm² 4) 10.5 cm²
32. The area of an isosceles right triangle if one of the equal sides is 20cm long []
 1) 250 cm² 2) 200 cm² 3) 400 cm² 4) 300 cm²
33. ABCD and PQRC are squares such that AD = 22 cm and PC = y cm. The area of the shaded region is 403 cm². The value of y is []
 1) 3
 2) 6
 3) 9
 4) 10
-
34. Each side of an equilateral triangle is 8 cm, its area is []
 1) $16\sqrt{3}$ cm² 2) $32\sqrt{3}$ cm² 3) $24\sqrt{3}$ cm² 4) $8\sqrt{3}$ cm²
35. A wire is in the form of a square of side 18 m. It is bent in the form of a rectangle whose length and breadth are in the ratio 3 : 1. The area of the rectangle is []
 1) 81 m² 2) 243 m² 3) 144 m² 4) 324m²
36. The ratio of the radius of two circles is 2 : 5. The ratio of their circumferences is []
 1) 4 : 5 2) 6 : 15 3) 2 : 5 4) 1 : 4
37. The diameter of a wheel of a cycle is 70cm. It moves along a road. The distance covered by car 24 complete revolutions is []
 1) 52.80m 2) 50.60m 3) 52m 4) 53m
38. PQRS is a diameters of a circle of radius 6cm. The lengths PQ, QR and RS are equal. Semicircles are drawn on PQ and QS as diameters as shown in figure. The area of the shaded region is []
 a) 27.71 cm²
 b) 37.71 cm²
 c) 47.71 cm²
 d) 35.71 cm²
-
39. The ratio of the area and circumference of a circle of diameter d is []
 1) d 2) $\frac{d}{2}$ 3) $\frac{d}{4}$ 4) 2d
40. The ages in years of 10 teachers in a school are 32, 41, 28, 54, 35, 26, 23, 33, 38, 40. The mean age of teachers is []
 1) 25 2) 35 3) 32 4) 33
41. The mean of 5 observations x, x + 2, x + 4, x + 6, x + 8 is 11. The mean of first 3 observations is []
 1) 7 2) 6 3) 9 4) 5
42. The median of the observations 11, 12, 14, 18, x + 2, x + 4, 30, 32, 35, 41 arranged in ascending order is 24. Then the value of x is []
 1) 20 2) 22 3) 21 4) 23
43. If a : b = 5 : 6 and b : c = 3 : 4 then a : b : c is []
 1) 5 : 6 : 8 2) 5 : 3 : 2 3) 6 : 5 : 4 4) 3 : 4 : 5

44. $\frac{5}{6}$ of 29% of $y = 29$. The value of Y is []
 1) 290 2) 58 3) 120 4) 100
45. A train of length 240m crosses a platform in 20 seconds. The speed of the train is 72 km/h. The length of the platform is []
 1) 150m 2) 160m 3) 140m 4) 155m
46. Speed of a boat in still water is 10 km/h and the speed of the stream is 5 km/h, the total time taken to travel a distance of 20m upstream and 30 km down stream []
 1) 5 hours 2) 4 hours 3) 7 hours 4) 6 hours
47. The present ages of Pavan and Kalyan are in the ratio of 4 : 5. The product of their ages numerically is equal to 980, the difference between their ages is []
 1) 9 2) 6 3) 5 4) 7
48. A trader marked his articles 20% above cost price. The lost price per article is Rs. 250, if he allows 10% discount on the marked price, then profit percentage is []
 1) 7% 2) 6% 3) 5% 4) 8%
49. Two pipes A and B can fill a tank in 4h and 8h respectively both the pipes are opened simultaneously and pipe B is closed after one hour the time taken by A to fill the remaining part of the tank []
 1) $2\frac{3}{8}$ h 2) $4\frac{3}{8}$ h 3) $3\frac{3}{7}$ h 4) $3\frac{3}{8}$ h
50. If $\frac{15x + 16y}{25x + 4y} = \frac{7}{6}$ then $x : y$ is []
 1) 1 : 2 2) 3 : 5 3) 4 : 5 4) 4 : 3

