NORTHEAST PSC

(Geometry)

(By AmarjeetSir**)**

**(9 Years Teaching Experience |
Mentored 10000+ Students |
200+ Selection in APSSB & APPSC Exams)**

Lines & Angles

Q1. A ray is represented as

[APSSB MTS 2023]

(a) AB

(b) $\overleftrightarrow{AB}$

(c) $\overline{AB}$

(d) $\overrightarrow{AB}$

Q2. Two distinct lines meeting at a point are called
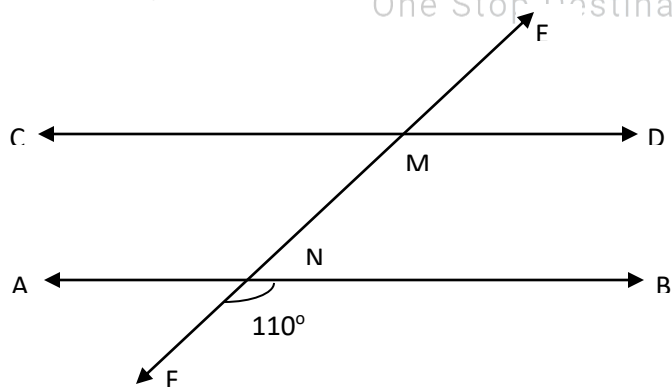
[APSSB LDC 2020]

(a) Parallel lines

(b) Non-intersecting lines

(c) Intersecting lines

(d) None of these

Q3. In the figure

AB is parallel to CD, EF is a transversal such that ∠FNB = 110°, the value of ∠EMC - ∠NMC =

[APSSB CHSL 2021]

(a) 20°

(b) 60°

(c)70°

(d)40°

Q4. Sum of 2 right angles is equal to

[APSSB LDC 2021]

(a) 90°

(b) 180°

(c) 270°

(d)360°

Triangle

Q5. The centroid of a triangle is the

[APSSB Stenography 2024]

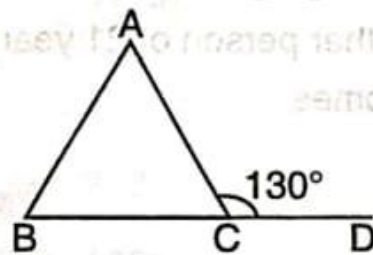(a) Point of intersection of its perpendicular bisector

(b) Point of intersection of its altitude

(c) Point of intersection of its medians

(d) Point of intersection of its angle bisectors

Q6. In the following figure, if |ABC = 2|ACB, |ACD = 130°, then |BAC =

[APSSB Stenography 2024]

(a) 50°

(b) 65°

(c) 30°

(d)60°

Q7. The point of intersection of 3 medians of a triangle is known as

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(a) Orthocentre   (b) Circumcentre

(c) Incentre   (d) Centroid

Q8. If the side length of an equilateral triangle is 12 cm, then the area of the triangle is

[APSSB CSL 2023]

(a) $18\sqrt{3}$ cm^2 (b) 36 cm^2

(c) $36\sqrt{3}$ cm^2 (d) 18 cm^2

Q9. In similar triangles, the ratio of the corresponding sides are

[APSSB CSL 2023]

(a) Unequal   (b) Equal

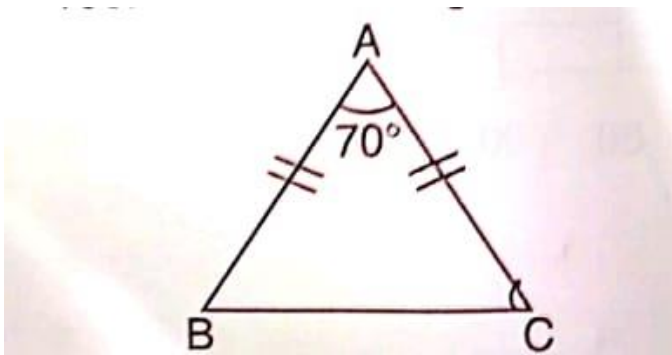(c) Always less than 1   (d) Always more than 1

Q10. In triangles ABC and PQR, $\angle A = \angle Q$, $\angle B = \angle R$ Which side of ΔPQR should be equal to side AB of ΔABC so that the two triangles are congruent?

[APSSB CSL 2023]

(a) PR   (b) PQ

(c) QR   (d) All of these

Q11. If the following Δ ABC is an Isosceles triangle, then C =

[APSSB CSL 2023]

(a) 50°   (b) 70°

(c) 60°   (d) 55°

Q12. If the angles of a triangle are in the ratio 2 : 3 : 4, then the angles are

[APSSB Forester 2022]

(a) 20°, 30°, 40°   (b) 10°, 70°, 100°

(c) 30°, 70°, 80°   (d) 40°, 60°, 80°

Q13. If the angles of a triangles are in the ratio 1 : 2 : 3, then the smallest angles is

[APSSB Jr. Estt./Draughtsman 2021]

(a) 15°   (b) 45°

(c) 60°   (d) 30°

Q14. The perimeter of the triangle whose sides are 14cm, 16cm, 10 cm is

[APSSB MTS 2023]

(a) 30 cm   (b) 40 cm

(c) 20 cm   (d) 10 cm

Q15. If in a triangle, the area of a circle is numberically equal to the perimeter, then the radius of the inscribed circle of the triangle is

(a) 1   (b) 1.5

(c) 2   (d) None of these

Q16. In a triangle the angles are in the ratio 2 : 3 : 4. The difference between the largest and smallest angles of the triangle is

[APSSB CHSL 2021]

(a) 50°   (b) 25°
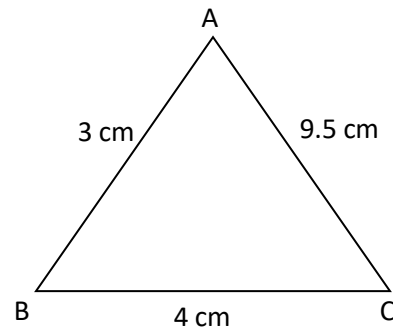
(c) 40°   (d) 36°

Q17. The side of an equilateral triangle is 5 cm. then its perimeter is

[APSSB CLDCE Driver 2022]

(a) 10 cm   (b) 20 cm

(c) 15 cm   (d) 25 cm

Q18. In the triangle ABC, find the perimeter.

[APSSB CLDCE Drive 2022]

(a) 19.5 cm   (b) 16 cm
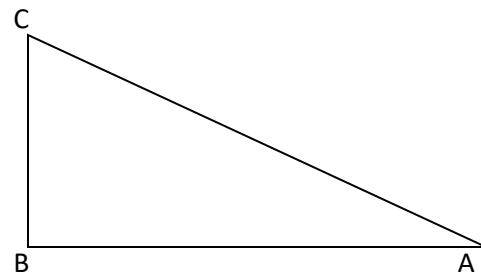
(c) 16.5 cm   (d) None of these

Q19. Area of equilateral triangle of side length 1 cm is

[APSSB Forester Guard 2022]

(a) $\frac{\sqrt{3}}{4}$ cm^2 (b) $\frac{1}{2}$ cm^2

(c) $\frac{\sqrt{3}}{2}$ cm^2 (d) None of these

Q20. In a right angle triangle ABC, if AB = 24 and BC = 7, then tan A =

[APSSB CGL 2023]

(a) $\frac{24}{7}$ (b) $\frac{7}{24}$

(c) $\frac{25}{24}$ (d) $\frac{24}{25}$

Q21. If ΔABC and ΔDEF are similar and their areas are 64 cm^2 and 121 cm^2 respectively with EF = 15.4 cm, then BC =

[APSSb CGL 2023]

(a) 10 cm   (b) 11.2 cm

(c) 8 cm   (d) None of these

Q22. The internal bisector of the angles of a triangle meet at a point called_____ of the triangle.

(a) Orthocentre   (b) Incentre

(c) Centroid   (d) Circumcentre

Q23. The area of the triangle with sides 3 cm, 4 cm and 5 cm is

(a) 12 cm^2 (b) 6 cm^2

(c) 6.5 cm^2 (d) None of these

Q24. Which of the following is not true?

(a) Congruent triangles are also simliar

(b) Similar triangles are not congruent

(c) If 2 pairs of angles are equal in two triangles, then 3rd

(d) None of these

Q25. Area of an equilateral triangle of sides 6 cm is (in sq. cm)

(a) 18   (b) $18\sqrt{3}$

(c) $9\sqrt{3}$ (d) None of these

Q26. A triangle in which only 2 sides are equal is called

(a) Equilateral triangle   (b) Scalene triangle

(c) Isosceles triangle   (d) None of these

Q27. The side of an equilateral triangle triangle is x, then the perimeter of the equilateral triangle in terms of x is

(a)x^2 (b)$\frac{3}{4}x^2$

(c) $\frac{x^2}{2}$ (d) $3x$

Q28. A triangle having all 3 unequal sides is called

(a) Isosceles triangle   (b) Scalene triangle

(c) Equilateral triangle   (d) None of these

Q29. Centroid in a triangle divides every median in the ratio

(a) $1:1$ (b) $1:2$

(c) $2:1$ (d) $3:1$

Q30. If the interior angles of a triangle are the ratio 3 : 4 : 5, then What is the measure of the greatest exterior angle?

(a) 160°   (b) 135°

(c) 140°   (d) 120°

Q31. In a right angled triangle, Orthocentre lies at

(a) Mid point of the hypotenuse

(b) Right angle of the triangle

(c) Centre of the triangle

(d) None of these

Q32. The ratio of the areas of 2 similar triangles is equal to the _____ of the ratio of their corresponding sides.

(a) Square   (b) Cube

(c) Square root   (d) None of these

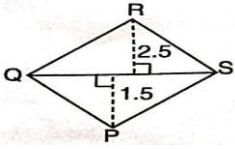**Q33. In two congruent triangles ABC and DEF, if AB = DE, BC = EF, then ∠A =**

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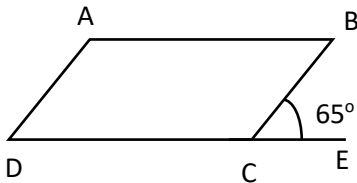WhatsApp: 8076535685 for APPSC and APSSB Exams

(a) $\angle$E

(b) $\angle$F

(c) $\angle$D

(d) None of these

Q34. Find the area of the following quadrilateral PQRS, if QS = 5.5 cm.

(a) 11cm^2

(b) 10cm^2

(c) 9 cm^2

(d) 8.5 cm^2

Q35. If ABCD is a parallelogram, the 2$\angle$ABC – $\angle$ADC =

(a) 50°

(b) 60°

(c) 65°

(d) 75°

Q36. What is the area of a parallelogram having base length 36 cm and height 15 cm ?

[APSSB Jr. Estt./Draughtsman 2021]

(a) 510 sq. cm

(b) 540 sq. cm

(c) 570 sq. cm

(d) None of these

Q37. The area of Rhombus whose diagonals are of lengths 8 cm and 6 cm is (in sq. cm)

[APSSB Jr. Estt./Draughtsman 2021]

(a) 48

(b) 24

(c) 14

(d) 16

Q38. The diagonal of a rectangle is 5 cm and one of its sides is 4 cm. area of the rectangle is

[APSSB Jr. Estt./Draughtsman 2021]

(a) 20 sq. cm

(b) 12 sq. cm

(c) 10 sq. cm

(d) None of these

Q39. Perimeter of a rectangle with length 7 cm and width 5 cm is

[APSSB MTS 2023]

(a) 21 cm

(b) 23 cm

(c) 22 cm

(d) 24 cm

Q40. If a square is 1 m of each side, its area will be

[APSSB MTS 2023]

(a) 4 m^2

(b) 4 m

(c) 1 m^2

(d) 1 m

Q41. If the perimeter of a square is 16 cm, then its one side is

[APSSB MTS 2023]

(a) 16 cm

(b) 8 cm

(c) 12 cm

(d) 4 cm

Q42. Find the area of rectangle whose L = 6 cm, B = 8 cm.
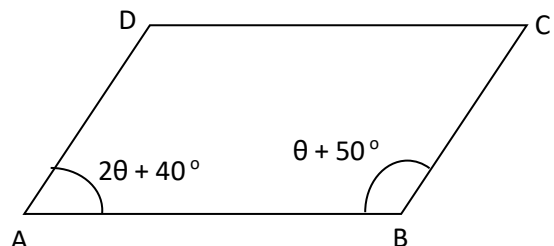
[APSSB MTS 2023]

(a) 48 sq. cm.

(b) 49 sq. cm.

(c) 46 sq. cm.

(d) 50 sq. cm.

Q43. The length of side of a Rhombus is 15 cm and the length of one of its diagonals is 18 cm. what is the length of the other diagonal?

[APSSB MTS 2023]

(a) 42 cm

(b) 24 cm

(c) 2 cm

(d) none of these

Q44. In a parallelogram ABCD, $\angle$A = 2θ + 40°, $\angle$B = θ + 50°. the measure of $\angle$C =

(a) 110º   (b) 120º

(c) 90º   (d) 100º

Q45. The wire in the form of a rectangle of length 7 m and breadth 4 m is bent to form a circle. Then the area of the circle is

[APSSB CHSL 2021]

(a) 40 sq. cm.   (b) 38.5 sq. cm.

(c) 45 sq. cm.   (d) 49 sq. cm.

Q46. The area of a square is 1024 sq. m. What is the perimeter of a rectangle whose length is twice the side of a square and breadth is half the side of the square?

[APSSB CHSL 2021]

(a) 180 m   (b) 164 cm

(c) 160 m   (d) None of these

Q47. What is the perpendicular distance between the parallel sides of a Trapezium whose are 6 cm and the length of the parallel sides are 18 cm and 36 cm?

[APSSB CHSL 2021]

(a) 8 cm   (b) 12 cm

(c) 6 cm   (d) None of these

Q48. Area of a rectangle of length 10 cm and breath 5 cm is (in cm²)

[APSSB CLDCE Driver 2022]

(a) 30   (b) 50

(c) 25   (d) none of these

Q49. If perimeter of a square is 40 cm, then length of each side of the square is

[APSSB Fireman & Mineral Guard 2023]

(a) 4 cm   (b) 10 cm

(c) 36 cm   (d) 20 cm

Q50. If the angles of quadrilateral are in the ratio 3 : 5 : 9 : 13, then find the smallest angle.

[APSSB CGL 2023]

(a) 13⁰   (b) 30⁰

(c) 15⁰   (d) 36⁰

Q51. The area of a square whose side length is 10 cm is
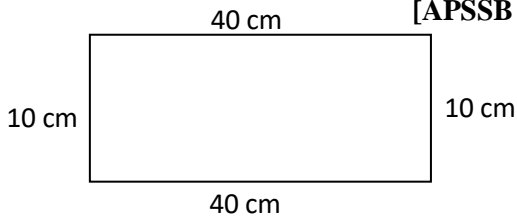
[APSSB LDC 2021]

(a) 20 cm²   (b) 40 cm²

(c) 100 cm^2 (d) None of these
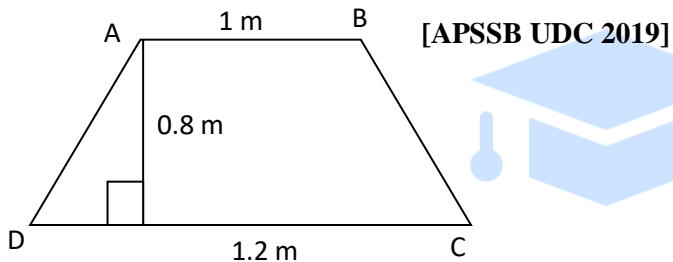
Q52. The perimeter of the following figure is

[APSSB LDC 2021]

(a) 400 cm   (b) 100 cm

(c) 50 cm   (d) 1600 cm

Q53. The area of a trapezium if AB = 1 m and CD = 1.2 m and perpendicular distance between them 0.8 m is
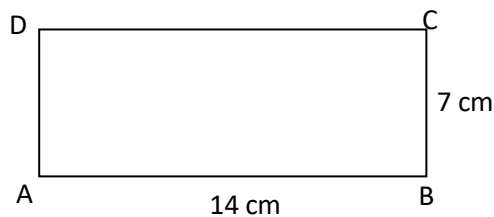

[APSSB UDC 2019]

(a) 0.88 m^2 (b) 0.088 m^2

(c) 8.8 m^2 (d) 0.44 m^2

Q54. The perimeter of the rectangle ABCD is

[APSSB UDC 2019]

(a) 98 cm   (b) 42 cm

(c) 48 cm   (d) 92 cm

Q55. In a quadrilateral if the sum of opposite angles is 180 then it is called

[APSSB UDC 2019]

(a) Parallelogram   (b) Rhombus

(c) Cyclic Quadrilateral   (d) None of these

Q56. The Perimeter of a Square whose area is 841 cm^2 is

[APSSB UDC 2019]

(a) 108 cm   (b) 112 cm

(c) 116 cm   (d) 118 cm

Q57. What will be the area of a rectangle if its length is doubled and breadth is halved?

[APSSB CGL 2019]

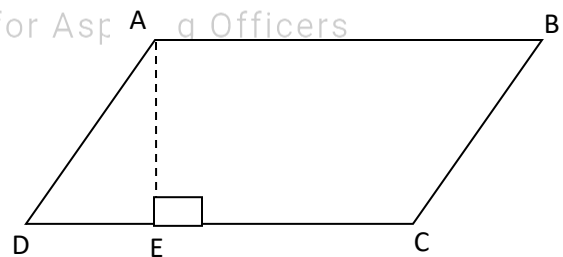(a) 4 Times   (b) Remains same

(c) 2 Times   (d) 8 Times

Q58. The area of a rectangle room is $45\frac{1}{4}$ m^2. If breadth is $9\frac{3}{7}$ m. Then is the length is

[APSSB CGL 2019]

(a) $\frac{255}{264} m$ (b) $\frac{1215}{28} m$

(c) $\frac{255}{28} m$ (d) $\frac{1267}{264} m$

Q59. If AB = 6 cm, AE =5 cm, then find the area of the following parallelogram ABCD.

[APSSB CHSL 2023]

(a) 15 cm^2 (b) 30 cm^2

(c) 11 cm^2 (d) 1 cm^2

Q60. If the area of a rhombus is 240 cm2 and one of the diagonals is 16 cm, then the other diagonal is
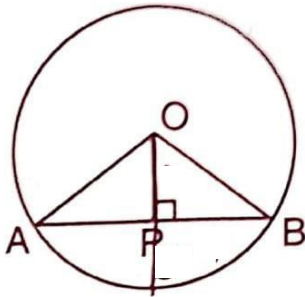
[APSSB CHSL 2023]

(a) 25 cm   (b) 30 cm

(c) 18 cm   (d) none of these

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Q61. In the following fig., OP is perpendicular to the chord AB. If AB = 8 cm, O is the centre of circle and OP = 3cm, find the radius of the circle.
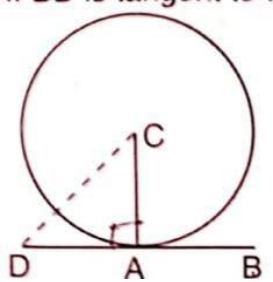
[APSSB CSL 2023]

(a) 4 cm

(b) 11 cm

(c) 5.5 cm

(d) 5 cm

Q62. If BD is tangent to the circle centred at 'C', then CAD =

[APSSB CSL 2023]

(a) 60°

(b) 90°

(c) 120°

(d) 45°

Q63. The number of common tangents to 2 intersecting circles is

[APSSB CSL 2023]

(a) 1

(b) 2

(c) 3

(d) 4

Q64. Find the area of a quadrant of a circle whose circumference is 22 cm.

[APSSB CSL 2023]

(a) 77 cm2

(b) $\frac{22}{4}$ cm2

(c) $\frac{1}{8}$ cm2

(d) $\frac{77}{8}$ cm2

Q65. A tangent to a circle intersects it in   Point(s).

[APSSB Stenographer 2024]

(a) 1

(b) 2

(c) 3

(d) infinite

Q66. 4 common tangents can be drawn for   circles.

[APSSB Stenographer 2024]

(a) Intersecting

(b) Touching

(c) Non-intersecting and non- touching

(d) None of these

Q67. The angle subtended by a chord AB on the circumference of a circle is 90°. If the length of the chord AB is 16 cm, then radius of the circle is of length

[APSSB Stenographer 2024]

(a) 8 cm

(b) 9 cm

(c) 12 cm

(d) 10 cm

Q68. If the perimeter and area of a circle are numerically equal, then the radius of the circle is

[APSSB Stenographer 2024]

(a) 2 units

(b) Π units

(c) 4 units

(d) 7 units

Q69. The radius of a circle whose circumference is 22 cm is ($\Pi = \frac{22}{7}$)

[APSSB Jr. Estt./Draughtsman 2021]

(a) $\frac{2}{7}$ cm

(b) $\frac{3}{7}$ cm

(c) 1 cm

(d) $\frac{7}{2}$ cm

Q70. Circles with same centre are known as _____ circles.

[APSSB MTS 2023]

(a) Concentric   (b) Interior

(c) Exterior   (d) Plane

Q71. What is the diameter if radius is 15 cm?

[APSSB MTS 2023]

(a) 20 cm   (b) 30 cm

(c) 40 cm   (d) 50 cm

Q72. What will be the cost of fencing a circular garden of radius 28 m at the rate of Rs. 45 per meter?

[APSSB CHSL 2021]

(a) Rs. 7,920   (b) . Rs. 8,000

(c) . Rs. 6,900   (d) None of these

Q73. A line intersecting a circle in 2 points is called

[APSSB CHSL 2021]

(a) Tangent   (b) Radius

(c) Secant   (d) None

Q74. The radius of a circle is $\frac{22}{7}$rd of the side of a square whose perimeter is 84 cm. What is the circumference of the circle?

[APSSB CHSL 2021]

(a) 88 cm   (b) 80 cm

(c) 72 cm   (d) None of these

Q75. Area of a rectangle of length 10 cm and breadth 5 cm is (in cm^2)

[APSSB CLDCE Driver 2022]

(a) 30   (b) 50

(c) 15   (d) 25

Q76.. The area of a semicircle of a circle whose circumference is 22 cm is, (in cm^3)

[APSSB CLDCE LDC/DEO 2022]

(a) $\frac{77}{8}$ (b) $\frac{22}{4}$

(c) $\frac{7}{8}$ (d) $\frac{77}{4}$

Q77. If the perimeter and area of a circle are numerically equal, then radius of the circle is

[APSSB Forester 2022]

(a) $\frac{1}{2}$ units   (b) Π units

(c) $\frac{\Pi}{2}$ units   (d) 2 units

Q78. Area of a circle of diameter 14 cm is ($\Pi = \frac{22}{7}$)

[APSSB Fireman & Mineral Guard 2023].

(a) 22 cm^2 (b) 154 cm^2

(c) 198 cm^2 (d) 100 cm^2

Q79. The largest chord in a circle is its

[APSSB CGL 2023]

(a) Radius   (b) Diameter

(c) Secant   (d) Tangent

Q80. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. The radius of the circle is

[APSSB CGL 2023]

(a) 7 cm   (b) 12 cm

(c) 15 cm   (d) 24.5 cm

Q81. If two circles are such that one lies completely inside the other without touching each other, then there will be _____ common tangents.

[APSSB CGL 2023]

(a) 2   (b) 1

(c) 0   (d) None of these

Q82. A diameter subtends an angle of _____ at the circumstance of the circle.

[APSSB CGL 2023]

(a) 60°   (b) 120°

(c) 90°   (d) None of these

Q83. The radii of two circles are 8 cm and 6 cm respectively. The radius of the circle having area equal to the sum of areas of the two given circles is

[APSSB CGL 2023]

(a) 10 cm   (b) 14 cm

(c) 2 cm   (d) None of these

Q84. The diameter of a circle divides the circle into how many equal parts?

[APSSB LDC 2021]

(a) 2   (b) 3

(c) 5   **(d) 6**

Q85. Tangent drawn to a circle touches the circle at

[APSSB CHSL 2023]

(a) 3 Points   (b) 2 Points

(c) 1 Points   (d) None of these

Q86. If 2 circles touch each other externally then the number of common tangents to the circles is
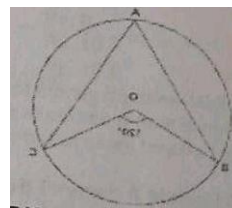
[APSSB CHSL 2023]

(a) 1   (b) 2

(c) 3   (d) 4

Q87. Perimeter of a circle of area 49 sq. units is

[APSSB CHSL 2023]

(a) 14π units   (b) 7π units

(c) 49π units   (d) π units

Q88. If 'O' is the centre of the and AB, AC are chords and $\angle BOC = 120°$ then, find the angle at the point A in the following figure.

[APSSB CHSL 2023]

(a) 240°   (b) 60°

(c) 70°   (d) 50°

Q89. cylinder has a total surface area of 440 sq. cm. The sum of its radius and its height is 10 cm. Its volume is s (Use $\Pi = \frac{22}{7}$)

[APSSB STENOGRAPHER 2024]

(a) 384 cm³　　　　　(b) 462 cm³

(c) 434 cm³　　　　　(d) 476 cm³

Q90. Which of the following is not an example for right prism?

[APSSB STENOGRAPHER 2024]

(a) Dice　　　　　(b) Rubik's cube

(c) Cuboid　　　　(d) Cone

Q91. If a sphere and a hemisphere have the same radius, then the ratio of their volumes is

[APSSB STENOGRAPHER 2024]

(a) 3 : 2　　　　　(b) 2 : 1

(c) 1 : 2　　　　　(d) 2 : 3

Q92. The volume of the right circular cone with radius 6 cm and height 7 cm is
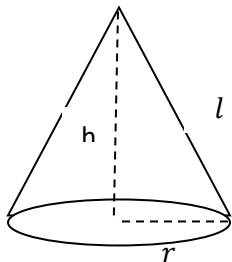
[APSSB STENOGRAPHER 2024]

(a) 792 cm³　　　　(b) 264 cm³

(c) 200 cm³　　　　(d) None of these

[APSSB STENOGRAPHER 2024]

Q93. The curved surface area of the following cone is

[APSSB STENOGRAPHER 2024]

(a) $2\pi r l$　　　　　(b) $\pi r l$

(c) $\pi^2 l$　　　　　(d) πr^2

Q94. If lateral surface area of a cylinder is 94.2 cm² and its height is 5 cm, then radius of the base is (Use $\pi = 3.14$)

[APSSB STENOGRAPHER 2024]

(a) 5 cm　　　　　(b) 3ccm

(c) 4 cm　　　　　(d) None of these

Q95. The radius of a sphere whose surface area is 154 cm², is

[APSSB STENOGRAPHER 2024]

(a) 3.5 cm　　　　　(b) 4 cm

(c) 4.2 cm　　　　　(d) 1.4 cm

Q96. If a pyramid has a slant height of 8 cm and square base of side 4 cm, then its lateral surface area is

[APSSB CSL 2023]

(a) 48 cm²　　　　　(b) 54 cm²

(c) 60 cm²　　　　　(d) 64 cm²

Q97. The volume of the triangular prism with base 5 cm, height 10 cm and length 15 cm, is

[APSSB CSL 2023]

(a) 250 cm³　　　　(b) 225 cm3

(c) 216 cm³　　　　(d) 375 cm³

Q98. If height of a right circular cone is 21 cm and slant height is 28 cm, then base radius is

[APSSB CSL 2023]

(a) $7\sqrt{7}$ cm　　　　(b) $2\sqrt{7}$ cm

(c) $3\sqrt{7}$ cm　　　　(d) $9\sqrt{7}$ cm

Q99. If the circumference of the base of a cylindrical vessel is 132 cm and its height is 25 cm, then how many litres of water it can hold ?

(Use $\pi = \frac{22}{7}$, 1l = 1000 cm³).

[APSSB CSL 2023]

(a) 50 (b) 30

(c) 34 (d) 34.65

Q100. The total surface area of a sphere of radius 7 cm is (Use $\pi = \frac{22}{7}$)

[APSSB CSL 2023]

(a) 661 cm² (c) 616 cm^2

(c) 216 cm² (d) None of these

Q101. The total surface area of a hemisphere of radius 10 cm is

(Use π = 3.14)

[APSSB CSL 2023]

(a) 900 cm^2 (b) 492 cm^2

(c) 942 cm^2 (d) 400 cm^2

Q102. If a cuboid has its length, breadth and height as 5 cm, 3 cm and 2 cm respectively, then its volume is

[APSSB CSL 2023]

(a) 33 cm^3 (b) 36 cm^3

(c) 27 cm^3 (d) 30 cm^3

Q103. The lateral (Curved) Surface area of a cylinder of radius r and height h is

[APSSB Jr. Estt./Draughtsman 2021]

(a) $2\pi r^2$ (b) $2\pi rh$

(c) π^2h (d) $4\pi r^2h$

Q104. The number of Edges in a cube is

[APSSB Jr. Estt./Draughtsman 2021]

(a) 8 (b) 10

(c) 12 (d) None of these

Q105. How many faces has cube?

[APSSB Jr. Estt./Draughtsman 2021]

(a) 6 (b) 7

(c) 8 (d) 9

Q106. A polygon having 4 sides is called a

[APSSB CLDCE LDC/DEO 2022]

(a) Triangle (b) Quadrilateral

(c) Pentagon (d) None of these

Q107. The area of the base of right circular cone is 1386 sq. cm. Its height is 20 cm, then volume of right circular cone is

[APSSB CGL 2023]

(a) 9240 cm^3 (b) 9000 cm^3

(c) 4920 cm^3 (d) 2490 cm^3

Q108. A prism has a square base whose side is 6 cm. Its height is 10 cm. The total surface area of the prism is (in sq. cm.)

[APSSB CGL 2023]

(a) 240 (b) 200

(c) 312 (d) 440

Q109. If volume of a cylinder of height 1 feet is 9 it cubic feet, then base radius of the cylinder is (in feat)

[APSSB CGL 2023]

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(a) 3   (b) 9

(c) $\sqrt{3}$ (d) None of these

Q110. The surface area of sphere of radius 1 cm

[APSSB CGL 2023]

(a) π cm^2 (b) 4π cm^2

(c) $16\,\pi$ cm^2 (d) None of these

Q111. The curved surface area of a hemisphere is equal to _____ of the sphere of the surface area of sphere.

[APSSB CGL 2023]

(a) $\frac{1}{2}$ (b) $\frac{3}{4}^{th}$

(c) $\frac{1}{4}^{th}$ (d) $\frac{1}{3}^{rd}$

Q112. A rectangular parallelepiped is also known as

(APSSB CGL 2023)

(a) Cube   (b) Cuboid

(c) Sphere   (d) Cylinder

Q113. A solid whose base is a polygon (triangle or square) and lateral faces are triangles is called

[APSSB CGL 2023]

(a) Prism   (b) Pyramid

(c) Cube   (d) Cuboid

Q114. The number of faces in a cube is

[APSSB LDC 2021]

(a) 4   (b) 8

(c) 6   (d) None of these

Q115. Which among the following is a 3 dimensional figure?

[APSSB UDC 2019]

(a) Square   (b) Circle

(c) Sphere   (d) Triangle

Q116. A closed Cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. How much sheet of metal is required?

[APSSB UDC 2019]

(a) 440 m^2 (b) 448 m^2

(c) 44 m^2 (d) None of these

Q117. The height of a cuboid whose base area is 90 cm³ and volume is 900 cm³ is

[APSSB UDC 2019]

(a) 10 cm   (b) 100 cm

(c) 9 cm   (d) None of these

Q118. If each edge of a cube is doubled then the number of times its volume increases is

[APSSB UDC 2019]

(a) 3   (b) 4

(c) 8   (d) 16

Q119. The number of faces in a polyhedron having 6 vertices and 12 edges is

[APSSB UDC 2019]

(a) 6   (b) 10

(c) 8   (d) 9

Q120. Surface area of a sphere of radius r is

[APSSB UDC 2019]

(a) $\frac{4}{3}\pi r2$ (b) $4\pi r2$

(c) $\frac{4}{3}\pi r$ (d) $2\pi r$

Q121. The side of a cube whose surface area is 600 cm² is

[APSSB UDC 2019)

(a) 6 cm   (b) 100 cm

(c) 10 cm   (d) None of these

Q122. The volume of a cuboid of length 20 cm, height 15 cm and breadth 12 cm is

[APSSB CHSL 2023]

(a) 3600 cm³ (b) 3000 cm³

(c) 1800 cm³ (d) 7200 cm³

Q123. The volume of a pyramid of height 2 cm and square base of side 3 cm is

[APSSB CHSL 2023]

(a) 6 cm^3 (b) 18 cm^3

(c) 12 cm^3 (d) 3 cm^3

Q124. A hemispherical bowl has a radius of 3.5 cm. The volume of water it would contain is

[APSSB CHSL 2023]

(a) $\frac{2(3.5)^2\pi}{3}$ cm3 (b) $\frac{4(3.5)^2\pi}{3}$ cm3

(c) $\frac{2(35)^2\pi}{3}$ cm3 (d) None of these

Q125. The volume of right circular cone of base radius 3 cm and altitude (height) 8 cm is (in cubic units)

(a) 24 π (b) 72 π

(c) 8 π (d) 3 π

Q126. If a prism has a base which is an equilateral triangle of side 6 cm and its height is 20 cm, then its volume is

[APSSB CHSL 2023]

(a) $180\sqrt{3}$ cm3 (b) $90\sqrt{3}$ cm3

(c) $60\sqrt{3}$ cm3 (d) $120\sqrt{3}$ cm3

Q127. The volume of cylinder of base radius r and height h is

[APSSB CHSL 2023]

(a) $\pi r^2 h$ (b) $\frac{3}{4}\pi r^2 h$

(c) $\pi r^3 h$ (d) $\frac{1}{3}\pi r^2 h$

Q128. Any point on the surface of a sphere is equidistant from the centre of the sphere. This distance _____ is of the sphere.

[APSSB CHSL 2023]

(a) Diameter

(b) Radius

(c) Circumference

(d) None of these

Q129. Volume of a hemisphere of radius r is

[APSSB CHSL 2023]

(a) $\frac{4}{3}\pi r^3$ (b) $\frac{2}{3}\pi r^3$

(c) $\frac{1}{3}\pi r^3$ (d) None of these

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