

SSC CHSL QUIZ FOR QUANT

Q1. The ratio between the length and the breadth of a rectangular park is 3 : 2. If a man cycling along the boundary of the park at the speed of 12 km/hr completes one round in 8 minutes, then the area of the park (in sq. m) is:

- (a) 15360
- (b) 153600
- (c) 30720
- (d) 307200

Q2. The length and breadth of a playground are 36m and 21 m respectively. Poles are required to be fixed all along the boundary at a distance 3m apart. The number of poles required will be

- (a) 39
- (b) 38
- (c) 37
- (d) 40

Q3. Two mutually perpendicular chords AB and CD meet at a point P inside the circle such that AP = 6 cms, PB = 4 units and DP = 3 units. What is the area of the circle?

- (a) $125\pi/4$ sq cms
- (b) $100\pi/7$ sq cms
- (c) $125\pi/8$ sq cms
- (d) $52\pi/3$ sq cms

Q4. A circular grass lawn of 35 metres in radius has a path 7 metres wide running around it on the outside. Find the area of path.

- (a) 1694 m^2
- (b) 1700 m^2
- (c) 1598 m^2
- (d) None of these

Q5. A wire can be bent in the form of a circle of radius 56 cm. If it is bent in the form of a square, then its area will be:

- (a) 3520 cm^2
- (b) 6400 cm^2
- (c) 7744 cm^2
- (d) 8800 cm^2

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Q6. A rectangular plate is of 6 m breadth and 12 m length. Two apertures of 2 m diameter each and one apertures of 1 m diameter have been made with the help of a gas cutter. What is the area of the remaining portion of the plate? [$\pi = 3.14$]

- (a) 68.5 sq. m.
- (b) 62.5 sq m
- (c) 64.93 sq. m
- (d) None of these

Q7. A cylindrical bucket of height 36 cm and radius 21 cm is filled with sand. The bucket is emptied on the ground and a conical heap of sand is formed, the height of the heap being 12 cm. The radius of the heap at the base is :

- (a) 63 cm
- (b) 53 cm
- (c) 56 cm
- (d) 66 cm

Q8. A metallic sheets is of rectangular shape with dimensions 48 cm $\times$ 36 cm. From each one of its corners, a square of 8 cm is cut off. An open box is made of the remaining sheet. Find the volume of the box

- (a) 5110 cm³
- (b) 5130 cm³
- (c) 5120 cm³
- (d) 5140 cm³

Q9. The capacity of a cylindrical tank is 246.4 litres. If the height is 4 metres, what is the diameter of the base?

- (a) 1.4 m
- (b) 2.8 m
- (c) 14 m
- (d) None of these

Q10. Find the total surface area of a pyramid with a square base if each side of the base measures 16 cm, the slant height of a side is 17 cm and the altitude is 15 cm.

- (a) 800 cm²
- (b) 1600 cm²
- (c) 200 cm²
- (d) None of these

Q11. A can do 75% of a job in 18 days and B can do 25% of the job in 12 days. If they work on it together, in how many days can they do 75% of the job?

- (a) 16
- (b) 8
- (c) 20
- (d) 12

Q12. Area of 4 walls of a cuboid is 57 sq m, if its length is 5.5 m and height is 3 m. What is its breadth (in m)?

- (a) 4.5
- (b) 4
- (c) 3
- (d) 3.5

Q13. At 30% discount the selling price of an article is Rs 1050. What is the selling price (in Rs) if the discount is 15%?

- (a) 1200
- (b) 1175
- (c) 1100
- (d) 1275

Q14. What is the fourth proportional to 336, 288 and 161?

- (a) 184
- (b) 115
- (c) 138
- (d) 134

Q15. What is the average of all numbers between 9 and 90 which are divisible by 8?

- (a) 53
- (b) 52
- (c) 51
- (d) 50

Q16. A trader had 630 kgs of rice. He sold a part of it at 15% profit and the rest at 8% profit, so that he made a total profit of 12%. How much rice (in kgs) did he sell at 8% profit?

- (a) 270
- (b) 300
- (c) 280
- (d) 290

Q17. 50% of $a = b$, then $b\%$ of 40 is the same as _____ of a .

- (a) 0.25
- (b) 0.16
- (c) 2
- (d) 0.2

Q18. Excluding stoppages, the speed of a train is 120 kmph and including stoppages, it is 50 kmph. For how many minutes does the train stop per hour?

- (a) 25
- (b) 40
- (c) 35
- (d) 20

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Q19. The simple and compound interest that can be earned in two years at the same rate is Rs 4000 and Rs 4180 respectively. What is the rate (percent per annum) of interest?

- (a) 18
- (b) 4.5
- (c) 9
- (d) 12

Q20. If $2x/3 - [5(4x/5 - 4/3)]/2 = 1/3$, then what is the value of x?

- (a) $9/4$
- (b) $4/9$
- (c) $-9/4$
- (d) $-4/9$

Q21. The ratio between the third proportional of 12 and 30 and mean proportional of 9 and 25 is

- (a) 2 : 1
- (b) 5 : 1
- (c) 7 : 15
- (d) 9 : 14

Q22. The product of the duplicate ratio of $2a : 6b$ and the reciprocal ratio of $4a^2 : 25b^2$ is

- (a) 0
- (b) 1
- (c) $a : b$
- (d) None of these

Q23. Find the two numbers whose mean proportion is 12 and the third proportional is 324.

- (a) 6 and 8
- (b) 4 and 36
- (c) 3 and 24
- (d) None of these

Q24. The present ages of A, B and C are in the ratio of 8 : 14 : 22 respectively. The present ages of B, C and D are in the ratio of 21 : 33 : 44 respectively. Which of the following represents the ratio of the present ages of A, B, C and D respectively?

- (a) 12 : 21 : 36 : 44
- (b) 12 : 21 : 33 : 44
- (c) 12 : 22 : 31 : 44
- (d) Cannot be determined

Q25. When 30% of one number is subtracted from another number, the second number reduces to its four-fifths. What is the ratio of the first to the second number?

- (a) 2 : 5
- (b) 2 : 3
- (c) 4 : 7
- (d) Cannot be determine

Q26. Shriram and Vividha started a business investing amount of Rs. 1,75,000 and Rs. 2,25,000 respectively. If Vividha's share in the profit earned by them is Rs. 9,000, then what is the total profit earned by them together?

- (a) Rs. 17,400
- (b) Rs. 16,000
- (c) Rs. 16,800
- (d) Rs. 17,800

Q27. Radhika and Nishita invested amount of Rs. 40,000 and Rs. 75,000 respectively. At the end of five year they got a total dividend of Rs. 46,000. What is Nishita's share in the dividend?

- (a) Rs. 16,500
- (b) Rs. 15,500
- (c) Rs. 30,000
- (d) Rs. 16,000

Q28. Avinash invested an amount of Rs. 25,000 and started a business. Jitendra joined him after one year with an amount of Rs. 30,000. After two year from starting the business, they earned the profit of Rs. 46,000. What will be Avinash share in the profit?

- (a) Rs. 14,000
- (b) Rs. 12,000
- (c) Rs. 7,667
- (d) Rs. 28,750

Q29. If $2x + \frac{1}{4x} = 1$. Then value of $x^2 + \frac{1}{64x^2}$ is

- (a) 0
- (b) 1
- (c) $\frac{1}{4}$
- (d) 2

Q30. If $\sqrt{x} - \sqrt{y} = 1$, $\sqrt{x} + \sqrt{y} = 17$ then $\sqrt{xy} = ?$

- (a) $\sqrt{72}$
- (b) 72
- (c) 32
- (d) 24



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