

Quant Mega Quiz for SSC

Q1. Which number is 40% less than 90% of 100?

- (a) 36
- (b) 54
- (c) 50
- (d) 60

Q2. The difference of two numbers is 15% of their sum. the ratio of the larger number to the smaller number is:

- (a) 23 : 17
- (b) 11 : 9
- (c) 17 : 11
- (d) 23 : 11

Q3. The income of C is 20% more than B's and the income of B is 25% more than A's. Find by how much percent is C's income more than A's ?

- (a) 150%
- (b) 50%
- (c) 25%
- (d) 35%

Q4. Two numbers are in the ratio 2 : 3. If 20% of the smaller number added to 20, is equal to the sum of 10% of the larger number and 25, then the smaller number is:

- (a) 100
- (b) 160
- (c) 180
- (d) 200

Q5. A number if reduced by 25% becomes 225. By what percent should it be increased so that it becomes 375?

- (a) 25%
- (b) 30%
- (c) 35%
- (d) 75%

Q6. The price of petrol is increased by 25%. By how much percent a car owner should reduce his consumption of petrol so that the expenditure on petrol would not be increased?

- (a) 25%
- (b) 30%
- (c) 50%
- (d) 20%



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Q7. The Government reduced the price of sugar by 10 percent. By this a consumer can buy 6.2 kg more sugar for Rs. 837. The reduced price per kg of sugar is:

- (a) Rs. 12.50
- (b) Rs. 13.00
- (c) Rs. 13.50
- (d) Rs. 14.00

Q8. The price of sugar is increased by 20%. If the expenditure on sugar has to be kept the same as earlier, the ratio between the reduction in consumption and the original consumption is:

- (a) 1 : 3
- (b) 1 : 4
- (c) 1 : 6
- (d) 1 : 5

Q9. The price of an article was first increased by 10% and then again by 20%. If the last increased price was Rs. 33, then original price was:

- (a) Rs. 30
- (b) Rs. 27.50
- (c) Rs. 26.50
- (d) Rs. 25

Q10. Two mobile phones are sold at Rs. 6000 each. The first mobile is sold at 20% profit and the other one at 25% loss. What is the percentage of loss or profit incurred during the deal?

- (a) 7.7% loss
- (b) 8.3 loss
- (c) 9% loss
- (d) 2% profit

Q11. If $\frac{\cos\alpha}{\sin\beta} = n$ and $\frac{\cos\alpha}{\cos\beta} = m$, then the value of $\cos^2\beta$ is?

- (a) $\frac{m^2}{m^2+n^2}$
- (b) $\frac{n^2}{m^2+n^2}$
- (c) $\frac{1}{m^2+n^2}$
- (d) 0

Q12. What is the simplified value of $(2 + 1)(2^2 + 1)(2^4 + 1)(2^8 + 1)$?

- (a) $2^8 - 1$
- (b) $2^{16} - 1$
- (c) $2^{32} - 1$
- (d) $2^{64} - 1$

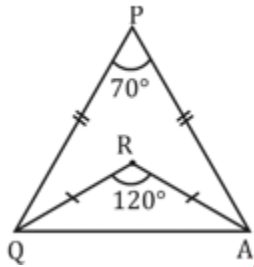
Q13. At Dehradun Public School $\frac{1}{9}$ students were absent in an exam and only $\frac{19}{24}$ of those who appeared for the exam passed it. Now we know that 500 students failed in the exam. Total number of students registered for the exam:

- (a) 2000
- (b) 2400
- (c) 2700
- (d) 3000

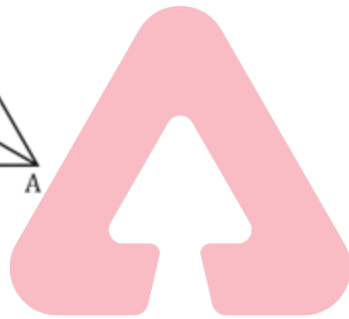
Q14. PQR is a right angled triangle in which PQ = QR. If the hypotenuse of the triangle is 20 cm, then what is the area (in cm^2) of the triangle PQR?

- (a) $100\sqrt{2}$
- (b) 100
- (c) $50\sqrt{2}$
- (d) 50

Q15. Find \angle PQR of the given isosceles $\triangle APQ$, when PQ = PA & QR = RA?



- (a) 35°
- (b) 25°
- (c) 40°
- (d) 34°



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Q16. If $a = -5$, $b = -7$, $c = 10$, then the value

$$\text{of } \frac{a^3 + b^3 + c^3 - 3abc}{(ab + bc + ca - a^2 - b^2 - c^2)}$$

- (a) -1
- (b) 2
- (c) 18
- (d) 21

Q17. When A alone does a piece of work, he takes 25 days more than the time taken by (A + B) to complete that particular work, while B alone takes 49 days more than the time taken by (A + B) to finish the same work. A and B together will take what time to finish this work?

- (a) 35 days
- (b) 25 days
- (c) 15 days
- (d) 45 days

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Q18. X can do a work in 16 days. In how many days will the work be completed by Y, if the efficiency of Y is 60% more than that of X?

- (a) 10 days
- (b) 12 days
- (c) 25 days
- (d) 30 days

Q19. If A, B, C are the angle of a triangle, then $\cot A \cdot \cot B + \cot B \cot C + \cot C \cdot \cot A$ will be equal to

- (a) $\tan 0^\circ$
- (b) $\tan 45^\circ$
- (c) $\tan 30^\circ$
- (d) $\tan 60^\circ$

Q20. The difference of compound interest and simple interest for 3 years and for 2 years are in ratio 23 : 7. What is rate of interest per annum (in %)?

- (a) 200/7%
- (b) 100/7%
- (c) 300/7%
- (d) 400/7%

Q21. If three numbers are in the ratio of 1:3:5 and their sum is 10,800. Find the largest of the three numbers.

- (a) 1200
- (b) 3600
- (c) 6000
- (d) 5400

Q22. A positive number exceed its positive square root by 30. Find the number.

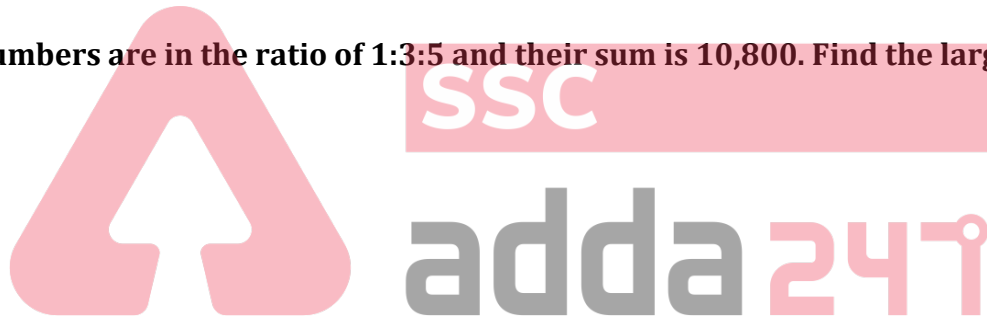
- (a) 16
- (b) 36
- (c) 25
- (d) 49

Q23. A car travels at the speed of 50 km/hr for the first half of the journey and at the speed of 60 km/hr for the second half of the journey. What is the average speed of the car for the entire journey?

- (a) 54.54 km/hr
- (b) 36.36 km/hr
- (c) 50.5 km/hr
- (d) 45.45 km/hr

Q24. The dimensions of a luggage box are 80 cm, 60 cm and 40 cm. How many sq. cm of cloth is required to cover the box?

- (a) 10400 sq. cm
- (b) 20800 sq. cm
- (c) 20400 sq. cm
- (d) 10200 sq. cm



Q25. The sum of digits of a two-digit number is 10. When the digits are reversed, the number decreases by 54. Find the changed number.

- (a) 73
- (b) 28
- (c) 82
- (d) 37

Q26. The incomes of A and B are in the ratio of 3:2 and their expenditures are Rs. 14,000 and Rs. 10,000 respectively. If A saves Rs. 4000, then B's savings will be:

- (a) Rs. 4000
- (b) Rs. 2000
- (c) Rs. 3000
- (d) Rs. 5000

Q27. Simplify: $(\frac{2}{9} + \frac{3}{5}) \div (\frac{2}{9} + \frac{2}{5})$

- (a) $\frac{37}{28}$
- (b) $\frac{47}{43}$
- (c) $\frac{43}{47}$
- (d) $\frac{41}{47}$

Q28. P is twice as efficient as Q. Q takes 12 days to complete a job. If both of them work together, how much time will they take to complete the job?

- (a) 6 days
- (b) 5 days
- (c) 4 days
- (d) 3 days

Q29. What is the median of the following list of numbers: 5, 3, 6, 9, 11, 19, and 1 ?

- (a) 5
- (b) 6
- (c) 9
- (d) 11

Q30. A sold a toy to B at a profit of 15%. Later on, B sold it back to A at a profit of 20%, thereby gaining Rs. 552. How much did A pay for the toy originally?

- (a) Rs. 2400
- (b) Rs. 2560
- (c) Rs. 2760
- (d) Rs. 2800

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