

Quantitative Aptitude for RRB NTPC

Q1. The difference between two numbers is 2. The difference of their squares is 28. What will be the sum of the two numbers?

- (a) 16
- (b) 14
- (c) 12
- (d) 10

Q2. The population of a town is increasing at the annual growth rate of 5%. If the present population is 1,60,000 then what will be population 4 years later?

- (a) 1,94,481
- (b) 1,78,641
- (c) 1,92,000
- (d) 1,65,000

Q3. The sum of the two numbers is 100 and their difference is 50. What is the ratio of the two numbers?

- (a) 2 : 1
- (b) 3 : 1
- (c) 4 : 1
- (d) 5 : 1

Q4. In Rs. 6.25, how many part is 25 paise?

- (a) $\frac{1}{25}$
- (b) $\frac{1}{20}$
- (c) 25
- (d) $\frac{2}{25}$

Q5. The average of 5 numbers is 9. The average of 3 numbers in the 5 numbers is 7. What is the average of the other two numbers?

- (a) 8
- (b) 10
- (c) 11
- (d) 12

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Q6. $\sqrt{10} \times \sqrt{15} = ?$

- (a) $5\sqrt{6}$
- (b) $6\sqrt{5}$
- (c) $\sqrt{30}$
- (d) $\sqrt{15}$

Q7. A sum of money doubles in 20 years at the simple rate of interest. In how many years will it become four times?

- (a) 40 years
- (b) 50 years
- (c) 60 years
- (d) 80 years

Q8. Which is that number whose 20% is 10?

- (a) 30
- (b) 40
- (c) 50
- (d) 70

Q9. Which is that smallest number which when divided by 20, 18 and 30 gives the same remainder 9, in each case?

- (a) 179
- (b) 189
- (c) 169
- (d) 199

Q10. In order to obtain 35% of a number, by what number should it be multiplied?

- (a) $7/20$
- (b) 3.5
- (c) $\sqrt{7}/20$
- (d) $5/20$

Q11. If a number is divided by 169, then the remainder is 78. If the same number is divided by 13, then what will be the remainder?

- (a) 0
- (b) 1
- (c) 6
- (d) 9

Q12. If the price of milk increases by 20%, then by what percent should a house wife decrease the consumption of milk so that no additional expenditure is incurred?

- (a) 40%
- (b) 25%
- (c) 20%
- (d) $16\frac{2}{3}\%$

Q13. If in an alloy, the ratio of copper and zinc is 13 : 7, then what will be the quantum of zinc in 100 kg. Alloy?

- (a) 20 kg
- (b) 60 kg
- (c) 35 kg
- (d) 65 kg

Q14. If a sum of money is divided into 4 persons in the ratio of 3 : 4 : 5 : 8, then the second most maximum amount is Rs. 25000. What is the total amount?

- (a) 100000
- (b) 2,5000
- (c) 400000
- (d) Cannot be determined

Q15. The average of three numbers is 135. The greatest number is 180 and the difference of the two other numbers is 25. Then what will be the smallest number?

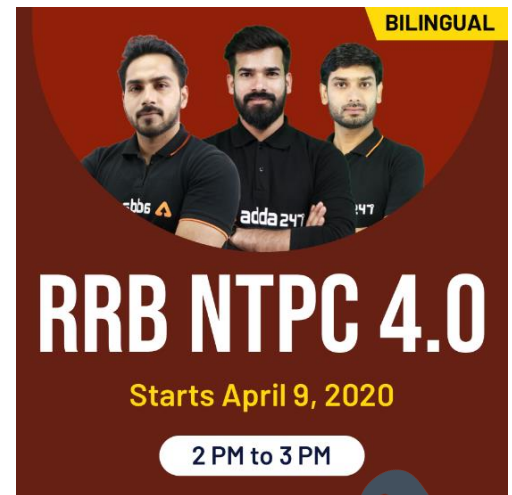
- (a) 130
- (b) 125
- (c) 20
- (d) 100

Q16. The difference in simple and compound interest at the rate of 5% per annum in two years of a sum of money is Rs. 1.50. Then what is the amount?

- (a) Rs. 600
- (b) Rs. 500
- (c) Rs. 400
- (d) Rs. 300

Q17. If $27\frac{1}{2}\%$ of a number is Rs. 275, then what will be the 55% of the same amount?

- (a) 500
- (b) 550
- (c) 450
- (d) 650



Q18. A sum of Rs. 624 is distributed amongst three persons in the ratio of $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ respectively.

Then what is the least share of this sum?

- (a) Rs. 172
- (b) Rs. 288
- (c) Rs. 264
- (d) Rs. 144

Q19. A man sails 13 km. against the motion of the river current and 28 km. for the motion of the river current. In both the cases, it takes him 5 hours each. Then what is the speed of the current?

- (a) 0.5 km/hr
- (b) 1 km/hr
- (c) 1.5 km/hr
- (d) 2 km/hr

Q20. 'A' moves at the speed of 4 km/hr and 4 hours later 'B' moves on his bicycle at the speed of 10 km/hr in the same direction. At what distance from the original point will 'B' catch A?

- (a) 16.7 km
- (b) 18.6 km
- (c) 21.5 km
- (d) 26.7 km

Q21. Equation of a line which makes intercepts 3 and 4 on x axis and y axis respectively is

- (a) $4x + 3y = 12$
- (b) $3x + 4y = 12$
- (c) $6x + y = 12$
- (d) $4x - 3y = 12$

Q22. The coordinates of a point which divides the join of (5, -5) and (2, -3) in the ratio 4 : 3, externally, are:

- (a) (3, 4)
- (b) (-7, 3)
- (c) (-7, 9)
- (d) (8, 3)

Q23. Distance between P (x, 0) and Q (3, -6) is 10 units and x is positive integer, then x =

- (a) 3
- (b) 9
- (c) 7
- (d) 11

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Q24. Distance between the points $(a \cos 25^\circ, 0)$ and $B(0, a \cos 65^\circ)$ is

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

Q25. The vertices of a parallelogram in order are $A(1, 2)$, $B(4, y)$, $C(x, 6)$, $D(3, 6)$, then $(x, y) =$

- (a) $(6, 2)$
- (b) $(3, 6)$
- (c) $(5, 6)$
- (d) $(1, 4)$

Q26. The point which divides the line segment joining the points $(7, -6)$ and $(3, 4)$ in ratio $1 : 2$ internally lies in the

- (a) I quadrant
- (b) II quadrant
- (c) III quadrant
- (d) IV quadrant

Q27. If the coordinates of the mid-point of the line segment joining the points $(2, 1)$ and $(1, -3)$ is (x, y) , then the relation between x and y can be best described by

- (a) $3x + 2y = 5$
- (b) $6x + y = 8$
- (c) $5x - 2y = 4$
- (d) $2x - 5y = 4$

Q28. Find the third vertex of the triangle whose two vertices are $(-3, 1)$ and $(0, -2)$ and the centroid is the origin.

- (a) $(2, 3)$
- (b) $\left(\frac{-4}{3}, \frac{14}{3}\right)$
- (c) $(3, 1)$
- (d) $(6, 4)$

Q29. Which of the following straight lines passes through the origin?

- (a) $x + y = 4$
- (b) $x^2 + y^2 = -6$
- (c) $x + y = 5$
- (d) $x = 4y$

Q30. What will be the length of the perpendicular drawn from the point (4, 5) upon the straight line $3x + 4y = 10$?

- (a) $12/5$
- (b) $32/5$
- (c) $22/5$
- (d) $42/5$

