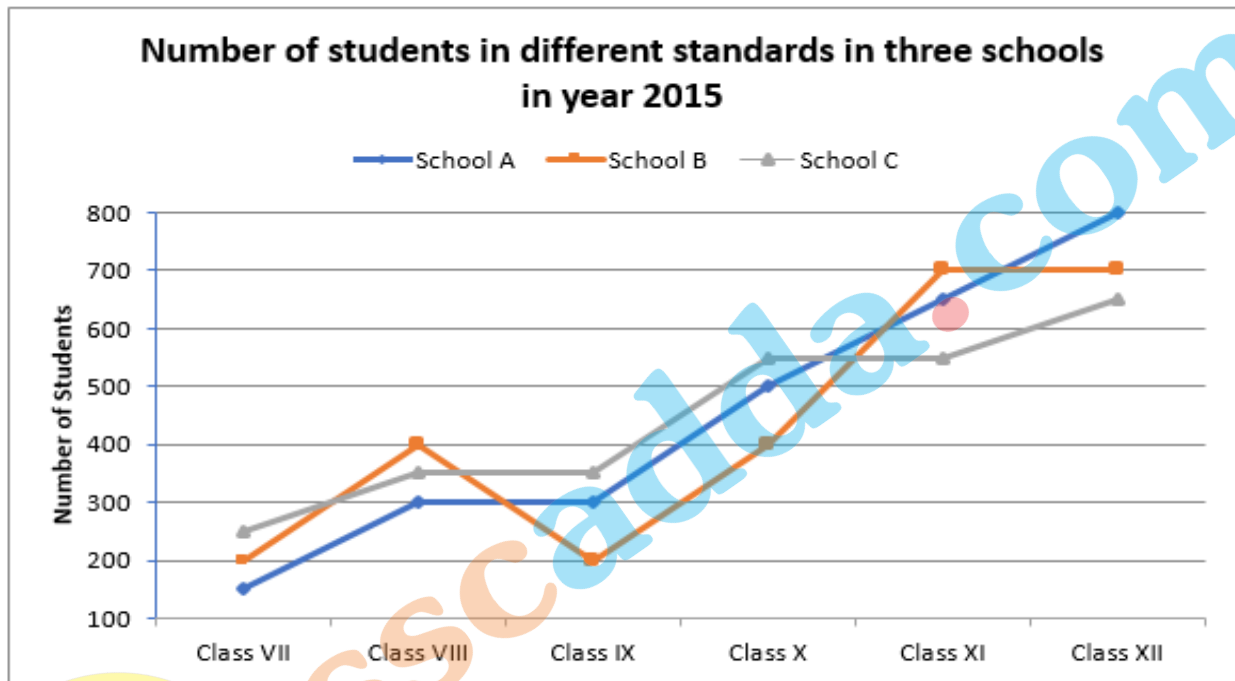## Quant Mega Quiz for SSC CGL Tier - 2

Directions (1-5): Study the following graph carefully to answer the questions given below.

Number of students in different standards in three schools in year 2015

─◆─ School A   ─■─ School B   ─▲─ School C

Q1. In year 2016 the number of students of class XII in three schools A, B and C increase by 5%, **10% and 20% respectively** with comparison to the last year in same class. Find the ratio of **students in class XII of all** schools in 2016?
(a) 84:78:77
(b) 84:77:78
(c) 88:77:78
(d) 8:7:9

Q2. By what percent the number of students in class IX in school C is less than total students in class XII in all the three schools together (find approximate value)?
(a) 84%
(b) 68%
(c) 75%
(d) 80%

Q3. What is average number of students in school A in all grades taken together?
(a) 456
(b) 465
(c) 450
(d) 460

Q4. What is respective ratio of the total students in all the standards in all three schools A, B and C?
(a) 27 : 26 : 27
(b) 23 : 13 : 9
(c) 9 : 13 : 26
(d) 3 : 13 : 11

Q5. The number of students in class VIII of the school B is what percent of total students in same school in all the standards ?
(a) 15.4%
(b) 16.8%
(c) 18.2%
(d) 20%

Q6. Two cars, an Alto and a Swift, start at the same time in opposite directions from two distinct points P and Q. Starting from P, the Alto reaches Q in 6 hrs 20 minutes and the Swift starting from Q, reaches P in 4 hrs 45 minutes. What is the speed of the Swift, if the speed of the Alto is 60 Km/h?
(a) 110 Km/h
(b) 100 Km/h
(c) 90 Km/h
(d) 80 Km/h

Q7. Ashwani has a certain amount of money with him. He can buy either 60 apples or 40 mangoes. He wants to spend only 70% of his money. So, he buys 14 mangoes and some apples. Find out the number of apples purchased by Ashwani.
(a) 23
(b) 21
(c) 28
(d) 25

Q8. A contractor undertook to construct a building in 120 days with 24 workers. However, after 57 days he observed that only 16% of the work is complete. How many more workers need to be employed to complete the work in time?
(a) 92
(b) 114
(c) 90
(d) 94

Q9. A man can row 40 Km upstream and 55 Km downstream in 13 h. Also, he can row 30 km upstream and 44 Km downstream in 10 h. Find the speed of the man in still water.
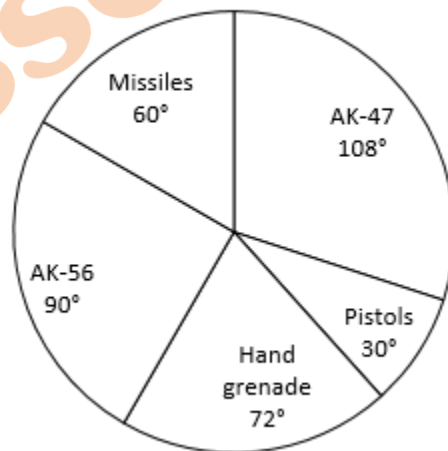(a) 5 Km/h
(b) 2 Km/h
(c) 4 Km/h
(d) 8 km/h

Q10. A can complete a piece of work in 4 days. B takes double the time taken by A, while C takes double the time to that of B, and D takes double than that of C to complete the same task.
They are paired in groups of two each. First pair takes two-thirds of the time needed by the second pair to complete the work. Which will be the first pair?
(a) B and C
(b) A and B
(c) C and D
(d) A and D

Directions (11-15): The following pie chart shows the angular distribution of weapons bought by India from Russia. Study the graph carefully to answer the following questions.

Total weapons bought by India = 36,000

Q11. Total number of AK – 47 and hand grenade together bought by India from Russia is what percent of total number of AK–56 and Missiles together?
(a) 110%
(b) 120%
(c) 140%
(d) 130%

Q12. What is the average number of Pistols, Hand grenade and missiles together bought by India from Russia ?

(a) 5400
(b) 5600
(c) 7800
(d) 4800

Q13. What is the ratio of number of Pistols and AK-56 together to the total number of AK-47 and hand-grenade

(a) 3: 4
(b) 3: 2
(c) 2: 3
(d) 4: 3

Q14. If total cost of missiles and AK-56 to India was Rs. 72 crores, then what was the price of one AK-56 rifle. It is given that ratio of price of one missile to one AK-56 is 3 : 1.

(a) 1.4 lacs
(b) 1.2 lacs
(c) 2.4 lacs
(d) 1 lac

Q15. What is the difference between total number of AK-47 and AK-56 weapons together and total number of rest weapons together ?

(a) 3000
(b) 4800
(c) 3200
(d) 3600

Q16. Two filling pipes A and B together can fill a tank with rate of 40 lit/min and 60 lit/min respectively in 8 min. If a waste pipe can empty the filled tank in 32 min. then what is the rate of waste pipe (in lit/min)

(a) 30 lit/min.
(b) 25 lit/min.
(c) 20 lit/min.
(d) 16 lit/min.

Q17. The ratio of efficiency of P and Q is 3 : 5. They start working together and after working 6 days Q left and the rest work is completed by P alone in 4 more days then in how many days P will complete the whole work while work alone ?

(a) 16 days
(b) 24 days
(c) 20 days
(d) 28 days

Q18. Rohit walks at 6 km/hr and reaches his destination 10 min late. If he walks at 7 km/hr. he reaches his destination on time. What distance he will cover in given time ?
(a) 7 km
(b) 6 km
(c) 9 km
(d) 12 km

Q19. Three horses can complete a single loop around a circular field in 16, 24 and 36 min respectively. They start running together at same instant then after how much time they will meet to each other for first time ?
(a) 2 hr. 44 min.
(b) 1 hr. 24 min.
(c) 3 hr. 24 min.
(d) 2 hr. 24 min.

Q20. When the price of sugar was increased by 32%, a family reduced its consumption in such a way that the expenditure on sugar was only 10% more than before. If 30 kg per month were consumed before, find the new monthly consumption of family?
(a) 42 kg
(b) 35 kg
(c) 25 kg
(d) 16 kg

Q21. Out of Rs. 50000, that a man has, he lends Rs. 8000 at 11/2% per annum simple interest and Rs. 24000 at 6% per annum simple interest. He lends the remaining money at a certain rate of interest so that he gets total annual interest of Rs. 3680. The rate of interest per annum, at which the remaining money is lent, is
(a) 5%
(b) 7%
(c) 10%
(d) 12%

Q22. Ravi alone would take 32 hours more to complete a job than both Ravi and Rajesh together. If Rajesh worked alone, he took 12½ hours more to complete it than both Ravi and Rajesh worked together. What time would they take if both Ravi and Rajesh worked together?
(a) 19 hours
(b) 6⅓ hours
(c) 20 hours
(d) 7½ hours

Q23. Two pipes X and Y can fill an empty tank in 16 and 24 hours respectively. Ravi opens these two pipes simultaneously. After 8/3 hours he comes back and sees that there was a leak in the tank. He stops the leakage and thus tank took 48/5 hours to be filled completely after closing the leak. In what time leakage will empty the filled tank?
(a) 6.9 hrs
(b) 9.6 hrs
(c) 12.4 hrs
(d) 8.4 hrs

Q24. A sum is divided between A and B in the ratio of 1 : 2. A purchased a car from his part, which depreciates $14\frac{2}{7}\%$ per annum and B deposited his amount in a bank, which pays him 20% interest per annum compounded annually. By what percentage will the total sum of money increase after two years due to this investment pattern (approximately)?
(a) 20%
(b) 26.66%
(c) 30%
(d) 25%

Q25. An electronics company sold 12 desktops at a profit of 20% and 8 desktops at a profit of 10%. If it had sold all the 20 desktops at a profit of 15%, then its profit would have been reduced by Rs. 36000. What is the cost price of each desktop?
(a) 1,85,000
(b) 1,82,000
(c) 1,80,000
(d) 1,90,000

Q26. Four examiners can examine a certain number of answer papers in 10 days by working for 5 hours a day. For how many hours in a day would 2 examiners have to work in order to examine twice the number of answer papers in 20 days?
(a) 10 hours
(b) 10½ hours
(c) 8 hours
(d) 9 hours

Q27. A certain product *C* is made of two ingredients *A* and *B* in the proportion of 2 : 5. The price of *A* is three times that of B. The overall cost of C is Rs. 5.20 per kg including labour charges of 80 paisa per kg. Find the cost of B per kg ?
(a) Rs. 8.40
(b) Rs. 4.20
(c) Rs. 4.80
(d) Rs. 2.80

Q28. Parameshwaran invested an amount of Rs 12000 at the simple interest rate of 10 per cent annum and another amount at the simple interest rate of 20 per cent per annum. The total interest earned at the end of one year on the total amount invested became 14 per cent per annum. Find the total amount invested.

(a) Rs 22000
(b) Rs 25000
(c) Rs 20000
(d) Rs 24000

Q29. Two numbers are in the ratio P : Q. When 1 is added to both the numerator and the denominator, the ratio gets changed to R/S. Again, when 1 is added to both the numerator and the denominator, it becomes 1/2. Find the sum of P and Q.

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

Q30. Megha weighs twice as much as Shweta. Shweta's weight is 60% of Deepika's weight. Rakesh weighs 50% of Vikas's weight. Vikas weighs 190% of Megha's weight. Which of these people weighs the least ?

(a) Megha
(b) Deepika
(c) Shweta
(d) Rakesh