

Cisco mock 1

Q1. In a College, there are 1800 students. Last day except for 4% of the boys all the students were present in the college. Today except for 5% of the girls all the students are present in the college, but in both the day's number of students present in the college, were the same. The number of girls in the college is?

- A. 400 B. 600 C. 800 D. 1000

Q2. 80% of a small number is 4 less than 40% of a larger number. The larger number is 125 greater than the smaller one. The sum of these two numbers is

- A. 355 B. 365 C. 325 D. 345

Q3. In a private company, 60% of the employees are men and 48% of the employees are Engineer and 66.6% of Engineers are men. The percentage of women who are not engineers is?

- A. 50% B. 55% C. 65% D. 60%

Q4. Initially, a shopkeeper had "x" pens. A customer bought 10% of pens from "x" then another customer bought 20% of the remaining pens after that one more customer purchased 25% of the remaining pens. Finally, a shopkeeper is left with 270 pens in his shop. How many pens were there initially in his shop?

- A. 800 B. 400 C. 600 D. 500

Q5. When 40% percent of a number is added to another number the second number increases to its 20%. What is the ratio between the first and second number?

- A. 2:1 B. 1:2 C. 2:3 D. 3:4

Q6. A vessel contains milk and water in the ratio of 4:3. If 14 liters of the mixture is drawn and filled with water, the ratio changes to 3:4. How much milk was there in the vessel initially?

- A. 40 B. 48 C. 24 D. 32

Q7. The sum of three numbers is 210. If the ratio between the first and second number be 2:3 and that between the second and third be 4:5, then the difference between the first and third number?

- A. 21 B. 35 C. 42 D. 56

Q8. The income of Nikhil and Hemanth are in the ratio of 4:5 and their expenditure is in the ratio of 2:3. If each of them saves 2000, then find their income.

- A. 4000, 6000 B. 4000, 5000 C. 5000, 4000 D. 5000, 6000

Q9. If the length of the rectangle is increased by 20%, by what percent should the width be reduced to maintain the same area?

- A. 21.33 B. 33.33 C. 13.37 D. 16.67

Q10. A cone whose height is half of its radius is melted to form a hemisphere. Find the ratio of the radius of the hemisphere to that of the cone.

- A. 4:1 B. 1:4 C. 1:2 D. 1:3

Q11. A rectangle whose sides are in the ratio 6:5 is formed by bending a circular wire of radius 21cm. Find the difference between the length and breadth of the rectangle?

- A. 6 cm B. 8 cm C. 10 cm D. 12 cm

Q12. The radius of the wheel of a car is 70 cm. How many revolutions per minute the wheel will make in order to keep a speed of 66 km/hr?

- A. 234 B. 272 C. 225 D. 250

Q13. 12 42 156 606 2400 ?

- A. 9186 B. 9470 C. 9570 D. 9486

Q14. 14 26 62 122 206 ?

- A. 314 B. 313 C. 310 D. 312

Q15. 18 9 11 ? 109 544

- A. 24 B. 14 C. 34 D. 28

Q16. 6 8 16 42 122 ?

- A. 366 B. 362 C. 364 D. 361

Q17. 6 12 72 ? 10080

- A. 720 B. 816 C. 879 D. 980

Q18. Varun and Madhav can together finish a work in 30 days. They worked together for 20 days and then Madhav left. After another 20 days, Varun finished the remaining work. In how many days Varun alone can finish the work?

- A. 60 B. 35 C. 50 D. 45

Q19. An alloy contains Brass, Iron, and Zinc in the ratio 2:3:1 and another contains Iron, zinc, and lead in the ratio 5:4:3. If equal weights of both alloys are melted together to form a third alloy, then what will be the weight of lead per kg in new alloy?

- A. $\frac{1}{8}$ B. $\frac{1}{9}$ C. $\frac{1}{4}$ D. $\frac{1}{7}$

Q20. 144 liters of the mixture contains milk and water in the ratio 5: 7. How much milk needs to be added to this mixture so that the new ratio is 23: 21 respectively?

- A. 36 liters B. 40 liters C. 28 liters D. 32 liters

Q21. What is the equation of the line parallel to the line $2x + 3y = 12$?

- A. $2.4x + 1.8y = 16$ B. $3.4x + 5.1y = 8$ C. $4.2x + 3.3y = 18$ D. $13.2x + 4.8y = 24$

Q22. What is the difference between cost price and the marked price of an article, sold at a loss of 11% for Rs. 2136 with a discount of 20%?

- A. Rs. 178 B. Rs. 267 C. Rs. 240 D. Rs. 270

Q23. A gives B a start of 200m and still wins a km race by 200m. B gives a start of 100m and still wins by 100m in another km race with C. How much start should A give C in a km race in order to beat him by 250m?

- A. 270 B. 480 C. 520 D. 230

Q24. The simple interest accumulated in 4 years, with interest, R% p.a, on a particular sum is half of its principal. Find R.

- A. 20% B. 6% C. 12.5% D. 8.33%

Q25. If two dices are rolled simultaneously, then what is the probability of getting the sum of the numbers a prime number?

- A. $\frac{14}{36}$ B. $\frac{5}{17}$ C. $\frac{15}{29}$ D. $\frac{5}{12}$

Q26. A multiplex owner increases the price of a ticket by 25%, because of which the number of viewers decrease by 25%. What is the percentage change in the revenue?

- A. 6.25% increase B. 9.375% increase C. 6.25% decrease D. 9.375% decrease

Q27. A and B start a business by investing 5 lks and 4 lks. B remains in the business for a complete year. How long did A remain in the business, if they received equal profit at the end of the year?

- A. 9.6 months B. 2.4 months C. 8.4 months D. 6.9 months

Q28. What is the remainder when addition of all the 2-digit multiples of 9 is divided by 11?

- A. 0 B. 1 C. 2 D. 3

Q29. 60% of the students learn German and 50% of the students learn French. If student in the class learns at least one subject out of the given two, then what percent of the students do not learn both the subjects?

- A. 10 B. 12 C. 80 D. 90

Q30. In the inequality, $x^2 - 14x + 50 < 5$, find the range of x.

- A. $5 > x > 9$ B. $5 < x < 9$ C. $-5 < x < 9$ D. $-5 > x > -9$

Direction for questions (31-35): Study the following table and answer the questions based on it.
Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

Q31. What is the average amount of interest per year which the company had to pay during this period?

- A. Rs. 32.43 lakhs B. Rs. 33.72 lakhs C. Rs. 34.18 lakhs D. Rs. 36.66 lakhs

Q32. The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

- A. 0.1% B. 0.5% C. 1% D. 1.25%

Q33. Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

- A. 62% B. 66% C. 69% D. 71%

Q34. The total expenditure of the company over these items during the year 2000 is?

- A. Rs. 544.44 lakhs B. Rs. 501.11 lakhs C. Rs. 446.46 lakhs D. Rs. 478.87 lakhs

Q35. The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

- A. 4:7 B. 10:13 C. 15:18 D. 5:8

Q36. Odometer is to mileage as compass is to

- A. speed B. hiking C. needle D. direction

Q37. In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:

- (A) If only (1) conclusion follows
- (B) If only (2) conclusion follows
- (C) If either (1) or (2) follows
- (D) If neither (1) nor (2) follows and
- (E) If both (1) and (2) follow.

Statements: Some actors are singers. All the singers are dancers.

Conclusions:

1. Some actors are dancers.
2. No singer is actor.
- A. Only (1) conclusion follows B. Only (2) conclusion follows C. Either (1) or (2) follows
D. Neither (1) nor (2) follows E. Both (1) and (2) follow

Q38. Choose the alternative which is closely resembles the mirror image of the given combination.

EFFECTIVE

(1) EVITCEFFE

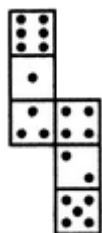
(2) EVITCEFFE

(3) EFFECTIVE

(4) EVITCEFFE

- A. 1 B. 2 C. 3 D. 4

Q39. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



- A. 2 B. 4 C. 5 D. 6

Q40. Tanya is older than Eric.

Cliff is older than Tanya.

Eric is older than Cliff.

If the first two statements are true, the third statement is

- A. true B. false C. uncertain

Answer key

1	C	9	D	17	A	25	D	33	C
2	A	10	B	18	A	26	C	34	A
3	D	11	A	19	A	27	A	35	B
4	D	13	D	20	D	28	C	36	D
5	B	13	C	21	B	29	D	37	A
6	D	14	A	22	D	30	B	38	A
7	C	15	D	23	A	31	D	39	D
8	B	16	C	24	A	32	C	40	b