



CAT 2023 Slot-1 Quantitative Ability Answer Key

- QA was dominated by Algebra with 8 questions on Quadratic equations, Linear Equations, Modulus Functions & Polynomials
- Arithmetic had 7 questions on SI/CI, Time and Work, Time-Speed-Distance, Clocks, Averages, Mixtures & Allegations and Profit & Loss
- 4 questions on Geometry on Triangle, Coordinate Geometry, Cyclic Quadrilateral
- 2 questions on Modern Math and one on Numbers.
- 1 question was on Indices
- The section was rated a bit more difficult

Topics	Number of Questions
Arithmetic	7
Algebra	8
Modern Math	2
Geometry	4
Number System	2

CAT 2023 Questions with Answer Key

A few memory based questions that appeared in different slots of CAT 2023 exam with answers are shared below:

Quantitative Ability (QA) Answer Keys

Q1. Rajendra went from point A to B and Anubha from B to A. They met somewhere between continuing their journey. Rajendra took 6 hours and Anubha took 24 hours to reach the respective destinations after meeting. If Rajendra traveled 54 Kmph, what is the distance AB.

1. 872 Kms
2. 972 Kms
3. 782 Kms
4. 988 Kms

Ans: 972 Kms

Q 2. Rajesh sold 2 products A and B at the same price. While doing that there was 20% Profit on A and 10% loss on B. The products were further sold at the same price but there is 10% Profit on B this time. What is the approximate profit percentage on A?

1. 47
2. 37
3. 49
4. 44

Ans: 47

Q 3. Salaries of A, B and C are in the ratio 5: 6 :7. Their salaries are increased in 1st year by 20%, 25% and 20% respectively. In the 2nd year, Then the salaries of A and C are again increased by 40% and 25%.The new salary of B is equal to the mean of salaries of A, B and C. What is the approximate percentage increase in the salary of B, in the second year.

1. 23%
2. 26%
3. 29%

4. 24%

Ans: 26%

Q.4. From a cup of coffee, some coffee is removed and replaced with Coco powder. Thus, Mix P is formed. Again, same amount of mixture is removed from Mix P and replaced with Coco powder. Thus, mix Q is formed. Mix Q has Coffee and Coco powder in the ratio of 16:9. find the ratio of Coco powder in P:Q

1. 5:4
2. 4:6
3. 5:6
4. 5:9

Ans: 5:9

Q. 5. Shrishti went on a 8-hour trip in a car, before the trip the car had travelled a total of x kms, where x is a whole number and is palindromic, at the end of her trip the car had travelled a total of 26862 kms. If Shrishti never drove at more than 110 km/hr, then the greatest possible average speed at which she drove is?

1. 80
2. 90
3. 110
4. 100

Ans: 100

Q.6 Angle between the hands at 8:48 is x . what is the minimum time in minutes when the angle between them increases by 50%.

1. 24/11 Mins
2. 24/9 Mins
3. 24/6 Mins
4. 24/10 Mins

Ans: 24/11 Mins

Q. 7. If x and y are real numbers such that $x^2 + (x - 2y - 1)^2 = 4y(x + y)$, Find the value $x - 2y$ is

1. 1
2. 2
3. 0
4. -1

Ans: 1

Q. 8. Find the number of natural numbers less than (or up to) 1000 having different digits.

1. 738
2. 756
3. 657
4. 783

Ans: 738

Q. 9. Let α and β be the two distinct roots of $2(x^2) - 6x + k = 0$, such that $(\alpha + \beta)$ & $(\alpha * \beta)$ are the distinct roots of the equation $x^2 + px + p = 0$, then, the value of $8(k - p)$

1. 4

- 2. 5
- 3. 6
- 4. 3

Ans: 6

Q. 10. The number of integer solution of $2|x|(x^2+1) = 5x^2$

- 1. 5
- 2. 4
- 3. 3
- 4. 2

Ans: 3