

CAT Quantitative Aptitude Questions for Practice

Difficulty Level-Easy

1. Akshat's age is double that of Gaurav. The sum of the ages of Akshat and Gaurav is double that of Rishab. 6 years hence the sum of the ages of Akshat and Rishab will be three times the age of Gaurav. Find their present ages.
(a) Akshat = 20 yrs., Rishab = 18 yrs., Gaurav = 24 yrs.
(b) Akshat = 16 yrs., Rishab = 12 yrs., Gaurav = 18 yrs.
(c) Akshat = 18 yrs., Rishab = 24 yrs., Gaurav = 12 yrs.
(d) Akshat = 24 yrs., Rishab = 18 yrs., Gaurav = 12 yrs.
2. AB is a railway line 220 km long, and three trains P , Q , R , travel on it at the speeds of 25 km/hr, 20 km/hr and 30 km/hr respectively. P and Q leaves A at 7 a.m. and 8: 15 a.m. respectively, and R leaves B at 10.30 a.m. Where will P be equidistant from Q and R ?
(a) 110 km from A
(b) 125 km from A
(c) 100 km f
(d) 150 km f
3. Given $A + 4$ $B + C + D$ is
(a) 1 (
4. If a bus incre hour less then
the usual tim istance AB in 2
hours more t
(a) 25 kms (b) 31 kms
(c) 38 kms (d) 42 kms
5. P1 was a very lazy person. When he went for hunting a job, everyone refused to engage him, except farmer P2. P2 engaged P1 at a wage of Rs. 300 per day for a month of 28 days. However, he set a condition that P1 would forfeit Rs. 100 each day if he idled. P1 accepted the job. At the end of the month, it was found that neither owed the other anything. How many days did P1 work in that month?
(a) 21 days
(b) 7 days
(c) 14 days
(d) None of these
6. If $\sqrt{a^b} = 5b + a^2$ then (a, b) could be
(a) (3, 4)
(b) (2, 12)

- (c) (4, 18)
(d) (6, 4)
7. A cylindrical container has its height twice the radius of the base. If due to imperfection in measuring callipers, 1 cm is taken as 1.02 cm, the percentage error in the volume is:
(a) 8%
(b) 3%
(c) 6.12%
(d) 6%
8. Three persons P, Q, R finished a piece of work. P worked at it for 5 days, Q for 7 days and R for 9 days. Their daily wages were in the ratio of 4 : 3 : 2 and they earned a total of Rs. 5900. What were the daily wages of P?
(a) 200
(b) 400
(c) 600
(d) 800
9. The diagonal of a square is $4\sqrt{2}$ cm. The diagonal of another square whose area is double that of the first square is:
(a) 8 cm
(b) $8\sqrt{2}$ cm
(c) $4\sqrt{2}$ cm
(d) 16 cm
10. If $x + \frac{1}{x} = y$,
(a) $y = 0$
(b) $-2 < y < 2$
(c) $y \geq 2$
(d) Does not exist
11. Find the greatest number of six digits which, when divided by 6, 7, 8, 9 & 10, gives 4, 5, 6, 7 & 8 respectively as remainders.
(a) 997920
(b) 995398
(c) 997918
(d) 995400
12. If $\log_y x = 3$ and $\log_y 8x = 4$, then find x .
(a) 128
(b) 1024
(c) 256
(d) 512
13. In how many ways can we arrange the alphabets of the word ARRANGE such that all the vowels are together?
(a) $7!((2! \times 2!))$

- (b) $\frac{7!}{2!}$
 (c) $\frac{(5! \cdot 3!)}{2! \cdot 2!}$

(d) None of these

14. $(15, 3)!$ is defined as the product of 3 consecutive numbers starting from 15. If H is the HCF of $(15, 3)!$ and $3!$, then what can be said about H ?

- (a) $H = 15!$
 (b) $H = 3!$
 (c) $H^3 = 3!$
 (d) $H^3 = 45$

15. If $f(x) = (x - 1)(x - 3)(x - 7)(x - 9) \dots (x - 99)$, then what will be the coefficient of x^{49} in $f(x)$?

- (a) -1275
 (b) -2500
 (c) 2500
 (d) 1275

16. If $a + b + c =$

$f a \times b \times c?$

- (a) 1056
 (b) 1080
 (c) 1100
 (d) 1200

17. Atul decided

n would get $\frac{5}{7}$ th

of what the 1st son would get $\frac{5}{5}$ th and the 3rd son would get set of what the 2nd son would get. 1st son got 60 gold coins more than the 3rd son. How many gold coins were distributed to the three sons?

- (a) 225
 (b) 195
 (c) 155
 (d) 135

18. If the number $79P856776Q$ is divisible by 4, 9 and 5 then, what are the respective values of P and Q ?

- (a) 4, 5
 (b) 5, 0
 (c) 8, 0
 (d) No such values of P and Q exist

19. Find the number of common root of the equations.

$$5x^2 + 2x - 7 = 0$$

$$6x^2 + 43x - 49 = 0$$

- (a) 1
 (b) 2

- (c) 3
- (d) None

20. A solid sphere of radius 12 inches is melted and cast into a right circular cone whose base diameter is $\sqrt{2}$ times its slant height. If the radius of the sphere and the cone are the same, how many such cones can be made and how much material is left out?
- (a) 4 and 1 cubic inch
 - (b) 3 and 12 cubic inch
 - (c) 4 and 0 cubic inch
 - (d) 3 and 6 cubic inch