**Co-Cubes QUESTIONS**

# **A train 110 meters long is running with a speed of 60 kmph. In what time will it pass a man who is running at 6 kmph in the direction opposite to that in which the train is going?**

1. 3,4,12,45,196,?,6006.
2. log2(x+5)=5 find the value of x
3. Find x in 10:x :: 5:4
4. 1,3,10,37,144,....
5. log8(3x+19)=2 find the value of x.
6. Log(x+y) = Log((3x-3y)/2) then (Log x - Log y) = ?
7. 350,360,740,
8. 150,400,1150,3400,?,30400
9. f(x) = x^2

g(x ) = -x^2

g(f(-3)) =?

1. In a certain code lang. HOUSE is coded as OHUES then MOUSE -??
2. 8,43,102,191,316,?,698,967…..
3. log5(3x+44)=3 find the x value?
4. 1,10,37,82,145,?.
5. Log 4 (3x+4) then X =?
6. Lisa can do a piece of work in 5hrs and john can do in 10hr then both together?
7. If DICTATE is coded as DSZSBHC then COMPANY can be coded as..?
8. R7S = R is the husband of S

T5U = U is brother of T

S3T = T is sister of S,

then what is the relation between D and Q in the given expression D7W3N5Q

1. 2 men and 5 women can together complete the work in 5 days while 3 mens and 4 women can finish 1/3rd of the work in 3 days then find time taken by six mens to complete the work.
2. G
3. A train is a length of 320 metres is passing a man who is moving at 2 km/hr in the same direction ,the train with a speed of 36kmph then find the time taken by the train to cross the man.
4. G
5. 3,4,12,45,196,\_\_\_\_\_,6066,42511
6. Find H.C.F of 54/9,60/17,36/51.
7. 56,54,51,47,?,36,29
8. 7,6,13,36,?,216.
9. Directions: Read the following information given below and the answer the following Questions Simplification Model-4  
   x?y =(x+y)/2  
   x&Y =(x^2-y^2)  
   x$y=(x-y)/2
10. 19,40,63,88,115,?,175,208
11. The ratio of present ages of Raju and sameer is 3 : 4. What is the age of Raju after 8 years, if the present age of sameer is 12 years ?
12. In how many ways 12 apples can be distributed among 3 people?
13. (a+(1/a))=6 then determine the value of (a3+a-3) =?
14. A and B started towards each other simultaneously with velocities 40 kmph and 50 kmpoh respectively. If they meet each other after 40 minutes. What would be the distance between A & B when they started?
15. Sunny bought 10 kg of sugar at 12 per kg and another 12 kg of sugar at 8 per kg. He mixed the both types and sold the mixture for Rs. 11 per kg. What is his total profit?
16. What is the volume of a cylinder of radius 7 cm and height 12 cm?
17. What is the simple interest on Rs.1500 at a rate of 5% per annum for 4 years?
18. 18,36,54,72,90,?,126,144
19. 0,6,24,60,120,210,?
20. PRESENT is coded as RTGVGPV and fathers is coded as
21. If PRINTS coded as RIKHGM and relent is coded as
22. log7(log 7powerx)=2
23. f(a,b)=(a power4+b power 4)-(a/b)  
    g(a,b)=(a/b) find f[(a,b)-g(a,b)]if a=2 b=-2mensuration problems based on cone,cylinder finding volume
24. By walking at 3/4 of his usual speed, a man reaches his office 20 minutes later than his usual time. The usual time taken by him to reach his office is?
25. The HCF and LCM of two numbers are 12 and 924 respectively. Then the number of such pairs is?

Ans:Let the numbers be 12x,12y. where x & y are co-prime numbers.

LCM = 12xy

12xy = 924

xy = 77

Possible pairs : (1,77)(7,11)

No.of pairs : 2

1. The average age of all the 100 employees in an office is 29 years, where 2/5 employees are ladies and the ratio of average age of men to women is 5 : 7. The average age of female employees is?