**1.Excluding stoppages, the speed of a bus is 54 km/hr and including stoppages, it is 45 km/hr. For how many minutes does the bus stop per hour?**

**2. A jogger running at 9 km/hr**along side**a railway track is 240 m ahead of the engine of a 120 m long train running at 45 km/hr in the same direction. In how much time will the train pass the jogger?**

**3.Kim can do a work in 3 days while David can do the same work in 2 days. Both of them finish the work together and get Rs. 150. What is the share of Kim?**

**4. . A and B start a business, with A investing the total capital of Rs.50000, on the condition that B pays A interest @ 10% per annum on his half of the capital. A is a working partner and receives Rs.1500 per month from the total profit and any profit remaining is equally shared by both of them. At the end of the year, it was found that the income of A is twice that of B. Find the total profit for the year?**

**5. Salaries of Ravi and Sumit are in the ratio 2:3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40:57. What is Sumit’s present salary?**

**6.A man can row 6 kmph in still water. When the river is running at 1.2 kmph, it takes him 1 hour to row to a place and black. What is the total distance traveled by the man?**

**7. At what rate percent per annum will the simple interest on a sum of money be 2/5 of the amount in 10 years?**

**8. . If the area of a circle is 616 sq cm then its circumference?**

**9. The mean of 50 observations was 36. It was found later that an observation 48 was wrongly taken as 23. The corrected new mean is?**

10. **The H.C.F and L.C.M of two numbers are 84 and 21 respectively. If the ratio of the two numbers is 1:4, then the larger of the two numbers is?**

11. **If the sum and difference of two numbers are 20 and 8 respectively, then the difference of their square is?**

12. **. Pipes A and B can fill a tank in 5 and 6 hours respectively. Pipe C can empty it in 12 hours. If all the three pipes are opened together, then the tank will be filled in?**

13. **The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period(in years) is?**

14. **A cylinder and a cone have the same height and same radius of the base. The ratio between the volumes of the cylinder and cone is?**

**15.A fair price shopkeeper takes 10% profit on his goods. He lost 20% goods during**theft**. His loss percent is?**