

## **AVERAGE, MIXTURE & ALLIGATION**

- 1. The heights of five boys are as follows: 109 cm, 110 cm, 110 cm, 108 cm and 109 cm. What is the average height of these boys?
- 2. Six children have 30, 40, 50, 60, 70, and 80 books with them. If each of them is given 15 books additionally, what will be the average number of books with them?
- The mean temperature of Monday to Wednesday was 37 °C and of Tuesday to Thursday was 34°C. If the temperature on Thursday was 4/5 that of Monday, the temperature on Thursday was

   a) 38 °C
   b) 36 °C
   c) 40 °C
   d) 39 °C
- 4. The average age of 24 students and the principal is 15 years. When the principal's age is excluded, the average age decreases by 1 year. What is the age of the principal?

a) 38 b) 40 c) 39 d) 37

5. Rohit Sharma has a certain average for 9 innings. In the tenth inning, he scores 100 runs thereby increasing his average by 8 runs. His new average is

a) 20 b) 24 \_\_\_\_ c) 28 d) 32

- 6. The average weight of 35 students is 35 kg. If the teacher is also included, the average weight increases to 36 kg. The weight of the teacher is
  a) 36 kg
  b) 71 kg
  c) 70 kg
  d) 45 kg
- 7. The average of the first five multiples of 7 is a) 20 b) 21 c) 28 d) 30
- 8. The average of the first ten natural numbers is a) 5 b) 5.5 c) 6.5 d) 6
- 9. The average of the first ten whole numbers is a) 4.5 b) 5 c) 5.5 d) 4
- 10. The average of the first ten even numbers is a) 18 b) 22 c) 9 d) 11
- 11. The average of the first ten odd numbers isa) 11b) 10c) 17d) 9
- 12. The average of the first ten prime numbers is a) 15.5 b) 12.5 c) 10 d) 12.9
- 13. The average of the first ten composite numbers is a) 12.9 b) 11 c) 11.2 d) 10
- 14. The average of the first ten prime numbers, which are odd, is
  a) 12.9 b) 13.8 c) 17 d) 15.8

Company	Number of Employees	Average Age
Р	30	85
Q	45	75
R	60	80
S	90	90

Four companies P, Q, R and S consist of distinct number of employees with respective average age is as indicated above. Find the average age of all the four companies combined.

a) 83 b) 83.33 c) 83.66 d) 83.5

- 16. A Mixture contain 88% of sulphur, another mixture contain 70% of sulphur. In order to get 84% of sulphur, in what ratio these two must be mixed.
  a) 2:7 b) 7:2 c) 7:4 d) 4:5
- 17. Sum of Rs.96 was shared among 48 boys and girls, each girl receive Rs.2.40 and boy receive Rs.1.80.How much amount did boys a) 26 b) 27 c) 32 d) 30
- 18. The milk and water in two vessels A and B are in the ratio 4:3 and 2:3 respectively. In what ratio the liquids in both the vessels be mixed to obtain a new mixture in vessel c consisting half milk and half water?



- 19. Milk and water are in the ratio of 3:2 in a mixture of 80 liters. How much water should be added so that the rate of milk and water become 2:3?
  a) 25 b) 40 c) 35 d) 20
- 20. Milk contains 15% water. What quantity of pure milk should be added to 50 litres of milk to reduce the quantity of water to 12%?
  - a) 16litres b) 14litres
  - c) 12.5litres d) 17litres
  - e) None of these

15.