

## Aptitude Average Questions and Answers Pdf

1. The body weight of seven students of a class is recorded as 54 kg, 78 kg, 43 kg, 82 kg, 67 kg, 42 kg and 75 kg. What is the average body weight of all the seven students?

- a. 63 kg
- b. 69 kg
- c. 71 kg
- d. 73 kg → A

Ans:

$$\begin{aligned}\text{Average body weight} &= \left( \frac{54 + 78 + 43 + 82 + 67 + 42 + 75}{7} \right) \text{kg} \\ &= \left( \frac{441}{7} \right) \text{kg} = 63 \text{ kg.}\end{aligned}$$

2. Find the average of the following sets of scores 385, 441, 876, 221, 536, 46, 291, 428

- a. 221
- b. 403
- c. 428
- d. 536 → B

Ans:

$$\begin{aligned}\text{Average} &= \left( \frac{385 + 441 + 876 + 221 + 536 + 46 + 291 + 428}{8} \right) \\ &= \left( \frac{3224}{8} \right) = 403.\end{aligned}$$

3. The monthly incomes of five persons are Rs.1132, Rs.1140, Rs.1144, Rs.1136 and Rs.1148 respectively. What is their arithmetic mean?

- a. Rs. 1100
- b. Rs. 1120
- c. Rs. 1132
- d. Rs. 1140 → D

Ans:

$$\begin{aligned}\text{Arithmetic mean} &= ₹ \left( \frac{1132 + 1140 + 1144 + 1136 + 1148}{5} \right) \\ &= ₹ \left( \frac{5700}{5} \right) = ₹ 1140.\end{aligned}$$

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4. Among five people with monthly income in Rs.15000, Rs.26000, Rs.16000, Rs.19000 and Rs.50000, how many will have income less than the mean income of five people?

- a. 1
- b. 2
- c. 3
- d. 4  $\rightarrow$  C

Ans:

$$\begin{aligned}\text{Mean income} &= ₹ \left( \frac{15000 + 26000 + 16000 + 19000 + 50000}{5} \right) \\ &= ₹ \left( \frac{126000}{5} \right) = ₹ 25200.\end{aligned}$$

Clearly, three people have monthly incomes below the mean income.

5. The total marks obtained by a student in Physics, Chemistry and Mathematics together is 120 more than the marks obtained by him in Physics, and Mathematics together?

- a. 40
- b. 50
- c. 120
- d. Cannot be determined  $\rightarrow$  B

$$P + C + M = C + 120 \Rightarrow P + M = 120.$$

$$\therefore \text{Required average} = \frac{P + M}{2} = \frac{120}{2} = 60.$$

6. The average of the first 100 positive integers is

- a. 49.5
- b. 50.5
- c. 51
- d. 100  $\rightarrow$  B

Ans:

$$\begin{aligned}\text{Required average} &= \left( \frac{1 + 2 + 3 + \dots + 100}{100} \right) \\ &= \frac{1}{100} \times \frac{100 \times 101}{2} = 50.5.\end{aligned}$$

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7. The average of 4 positive integers is 59. The highest integer is 83 and the lowest integer is 29. The difference between the remaining two integers is 28. Which of the following integers is highest of the remaining two integers?

- a. 39
- b. 48
- c. 76
- d. Cannot be determined  $\rightarrow$

Ans: C

Sum of four integers =  $59 \times 4 = 236$ .

Let the required integers be  $x$  and  $x - 28$ .

Then,  $x + (x - 28) = 236 - (83 + 29) = 124$

$\Rightarrow 2x = 152 \Rightarrow x = 76$ .

Hence, required integer = 76.

8. The average expenditure of a man for the first five months of a year is Rs.5000 and for the next seven months it is Rs.5400. He saves Rs.2300 during the year. His average monthly income is

- a. Rs.5425
- b. Rs.5445
- c. Rs.5500
- d. Rs.5600  $\rightarrow$  A

Ans:

$$\begin{aligned}\text{Total yearly income} &= ₹ (5000 \times 5 + 5400 \times 7 + 2300) \\ &= ₹ (25000 + 37800 + 2300) = ₹ 65100.\end{aligned}$$

$$\therefore \text{Average monthly income} = ₹ \left( \frac{65100}{12} \right) = ₹ 5425.$$

9. If the arithmetic mean of seventy five numbers is calculated, it is 35. If each number is increased by 5, then mean of new numbers is

- a. 30
- b. 40
- c. 70
- d. 90  $\rightarrow$  B

Ans:

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A.M. of 75 numbers = 35. Sum of 75 numbers  
 $= (75 \times 35) = 2625.$

Total increase =  $(75 \times 5) = 375$ . Increased sum  
 $= (2625 + 375) = 3000.$

Increased average =  $\frac{3000}{75} = 40.$

10. The mean of 25 observations was found to be 78.4. But later on it was found that 96 was misread as 69. The correct mean is

a. 76.54

b. 78.4

c. 79.48

d. 81.32  $\rightarrow$  C

Ans:

Correct sum =  $(78.4 \times 25 + 96 - 69) = 1987.$

$\therefore$  Correct mean =  $\frac{1987}{25} = 79.48.$

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