

Average Questions and Answers for SSC Exams Pdf

1. A student obtained 60, 75 and 85 marks respectively in three monthly examinations in Physics and 95 marks in the final examination. The three monthly examinations are of equal weightage whereas the final examination is weighted twice as much as a monthly examination. His average marks in Physics are

- a. 78.75
- b. 79
- c. 82
- d. 85

Ans: C

$$\begin{aligned}\text{Average marks in Physics} &= \frac{60 \times 1 + 75 \times 1 + 85 \times 1 + 95 \times 2}{1 + 1 + 1 + 2} \\ &= \frac{60 + 75 + 85 + 190}{5} = \frac{410}{5} = 82.\end{aligned}$$

2. There were 24 students in a class. One of them, who was 18 years old, left the class and his place was filled up by a new comer. If the average of the class thereby, was lowered by one month, the age of the new comer is

- a. 14 years
- b. 15 years
- c. 16 years
- d. 17 years

Ans: C

$$\begin{aligned}\text{Total age decreased} &= (24 \times 1) \text{ months} = 24 \text{ months} \\ &= 2 \text{ years.}\end{aligned}$$

$$\therefore \text{Age of the newcomer} = (18 - 2) \text{ years} = 16 \text{ years.}$$

3. The average age of a husband and his wife was 23 years at the time of their marriage. After five years they have a one year old child. The average age of the family now is

- a. 19 years
- b. 23 years
- c. 28.5 years
- d. 29.3 years

Ans: A

Sum of the present ages of husband, wife and child
= $(23 \times 2 + 5 \times 2) + 1 = 57$ years.

\therefore Required average = $\left(\frac{57}{3}\right) = 19$ years.

4. After replacing an old member by a new member, it was found that the average age of five members of a club is the same as it was 3 years ago. What is the difference between the ages of the replaced and the new member?

- a. 2 years
- b. 4 years
- c. 8 years
- d. 15 years

Ans: D

Age decreased = (5×3) years = 15 years.

So, the required difference = 15 years.

5. The average weight of 21 boys was recorded as 64 kg. If the weight of the teacher was added, the average increased by 1 kg. What was the teacher's weight?

- a. 86 kg
- b. 64 kg
- c. 72 kg
- d. 84 kg

Ans: A

Average weights of 21 boys = 64 kg

Total weights of 21 boys = $64 \times 21 = 1344$ kg

The weight of the teacher was added then average increase by 1kg

\Rightarrow total weight of teachers and 21 boys = $65 \times 21 = 1430$ kg

Weight of teacher = $1430 - 1344 = 86$ kg

6. Find the average of 205, 302, 108, 403 and 202

- a. 450
- b. 1225
- c. 244
- d. 1220

Ans: C

$$\text{Sum of numbers} = 205 + 302 + 108 + 403 + 202 = 1220$$

$$\text{Required average} = \frac{1220}{5} = 244$$

7. The average of five numbers is 27. If one number is excluded, the average becomes 25. The excluded number is

- a. 25
- b. 27
- c. 30
- d. 35

Ans: D

$$\text{Total of 5 numbers} = 27 \times 5$$

$$\text{Excluded number} = 27 \times 5 - 25 \times 4 = 135 - 100 = 35$$

8. The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4?

- a. 2
- b. 4
- c. 70
- d. 76

Ans : D

$$\text{Total score in 10 innings} = 32 \times 10 = 320$$

To raise the average to 36,

$$\text{Total score after 11 innings} = 36 \times 11 = 396$$

$$\therefore \text{Runs he has to take in the 11th innings} = 396 - 320 = 76$$

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

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

Ans: B

meritnotes.com

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

10. The marks of six boys in a group are 48, 59, 87, 37, 78 and 57. What are the average marks of all six boys?

- a. 61
- b. 65
- c. 69
- d. None of these

Ans: A

$$\text{Total marks of six boys} = 48 + 59 + 87 + 37 + 78 + 57 = 366$$

$$\text{Required average} = \frac{366}{6} = 61$$

meritnotes.com