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Average questions are a major type of questions asked in competitive exams. These questions carry a weightage of 1-2 questions (2-4 marks) in SSC exams and 1-2 questions in bank exams. To get a good rank in competitive exams, you should have a good hold on the concepts of Average.

Here are some tips for solving Average questions: Identify the key information in the question, Use the appropriate formula as there are many different formulas that can be used to calculate the average. Practice solving a variety of average questions, Use shortcuts and formulas.

So, we have attached 10 questions of Average for you to practice with. You should aim to solve these questions in less than half a minute for each.

Practice Questions on Average

You can also download the Average questions and answers pdf. Just click on the **Download PDF** button. So let's start with the very first question.

Q:1 Ratio of boys to girls in a class of 48 students is 3 : 1. Average weight of boys is 47 kg and average weight of the class is 45.5 kg. Find the average weight of girls.

1. 40 kg
2. 40.5 kg
3. 41 kg
4. 41.5 kg
5. 42 kg

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Did the calculation took some time? No worries, more to come!

Q:2 Average of three numbers is 143. First and third numbers are in ratio 7 : 9, while the second number is 40% more than the third number, find the sum of the second and third number.

1. 296
2. 304
3. 336
4. 324
5. None of these



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(**Difficulty:** 3, **Estimated Time:** 20 Seconds) It is not an easy one but I think now you're prepared for it. Did you guess it right?

Q:3 The average age of A, B, C, D and E is 40.2 years. The average age of A and B is 34.5 years and the average age of C and D is 41.5 years. Find the age of E.

1. 63 years
2. 55 years
3. 49 years
4. 43 years
5. 37 years

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Another calculative one, but you will have to solve such questions within time!

Q:4 The average age of all the 100 employees in an office is 32 years, where $\frac{2}{5}$ employees are women and the ratio of average age of men to women is 6 : 7. Find the average age of male employee.

1. 35 years
2. 24 years
3. 42 years
4. 48 years
5. 30 years

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) This was a test of your concepts!

Q:5 The average age of 20 pupils of Aryabhata was 25 years. If the age of Aryabhata was also included, the average age of 21 people becomes 26 years. What was the age of Aryabhata at that time?

1. 38 years
2. 42 years
3. 48 years
4. 46 years
5. 52 years

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) We're halfway through. Have you got all your questions correct so far?

Q:6 The average age of a family of 6 members 4 years ago was 25 years. Meanwhile, a child was born in this family and still, the average age of the whole family is the same today. The present age of the child is:

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1. 2 year
2. 1 year
3. 3 year
4. 4 year
5. 6 year

(**Difficulty: 4, Estimated Time: 30 Seconds**) This was a hard nut to crack, be prepared for such questions in exam!

Q:7 Average of four consecutive natural natural numbers is 67.5. One of them is divisible by 4. Find average number of all natural numbers below this number.

1. 42.5
2. 34.5
3. 36
4. 27.5
5. 48

(**Difficulty: 4, Estimated Time: 25 Seconds**) This was also a tricky one, but I think now you're prepared for it.

Q:8 The average weight of a class of 27 students is 43 kg. A new student whose weight is 47 kg replaces an old student of this class. Hence the average weight of the whole class decreases by 1 kg. Find the weight of replaced student.

1. 90 kg
2. 70 kg
3. 77 kg
4. 74 kg
5. 65 kg

(**Difficulty: 2, Estimated Time: 15 Seconds**) This is a common question! You might have done it in 10 seconds

Q:9 Average of 5 numbers is 150. One number is 40% of the average of 5 numbers and second number is 65% of the average of 5 numbers. What will be the average of remaining three numbers?

1. 197.5
2. 197

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3. 198.5
4. 198
5. 199.5

(**Difficulty: 3, Estimated Time: 20 Seconds**) Practice and get fast with your calculations!

Q:10 Aman spends Rs 6435, Rs 6855, Rs 7230, Rs 6989 and Rs 6500 in 5 months. How much money should he spend in the 6th month so that the average of his spending becomes Rs 6500?

1. Rs. 4991
2. Rs. 4876
3. Rs. 4885
4. Rs. 4856
5. Rs. 4976

(**Difficulty: 2, Estimated Time: 15 Seconds**) This was an easy one. Did you guess them all correctly?

Answer Key

Let's check out your score in this test.

1. (3)	2. (4)	3. (3)	4. (5)	5. (4)
6. (2)	7. (2)	8. (4)	9. (1)	10. (1)

Comment below your score, considering each question has 1 mark only. If you scored 8 to 10, congratulations! You are one step closer to selection. If you have scored 5 to 8 marks, then you are doing well, keep it up. If you have scored less than 5 marks then you need to work a little harder on this subject. But don't worry, we are here to help you master the subject.

Let's check the answers and solutions and try to find out what went wrong.

Answers and Solutions

Q:1 The correct answer is **option 3** i.e. **41 kg**.

Total students = 48



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Ratio of boys to girls = 3 : 1

Number of boys = $\frac{3}{4} \times 48 = 36$

Number of girls = $48 - 36 = 12$

Let average weight of girls = a

According to the question,

$$\Rightarrow 12 \times a + 36 \times 47 = 48 \times 45.5$$

$$\Rightarrow 12a + 1692 = 2184$$

$$\Rightarrow 12a = 492$$

$$\Rightarrow a = 41 \text{ kg}$$

Q:2 The correct answer is **option 4** i.e. **324**

Average of three numbers = 143

Sum of three numbers = $143 \times 3 = 429$

Let the first and the third number be $7x$ and $9x$ respectively.

Second number = $(100 + 40)\%$ of $9x = 12.6x$

$$\Rightarrow 7x + 9x + 12.6x = 429$$

$$\Rightarrow 28.6x = 429$$

$$\Rightarrow x = 15$$

Required Sum = $9x + 12.6x = 21.6x = 324$

Q:3 The correct answer is **option 3** i.e. **49 years**

Given :

The average age of A, B, C, D, and E = 40.2 years

Now,

Total age of A, B, C, D, and E



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$$40.2 \times 5 = 201 \text{ years}$$

Total age of A and B

$$34.5 \times 2 = 69 \text{ years}$$

The average age of A and B is 34.5 years

Total age of C and D

$$41.5 \times 2 = 83 \text{ years}$$

Average age of C and D = 41.5 years

∴ Age of E

$$201 - (69 + 83) = 201 - 152 = 49 \text{ years}$$

Q:4 The correct answer is **Option 5** i.e. **30 years**

Given, Total number of employees = 100

$$\text{Number of female employees} = 100 \times \frac{2}{5} = 40$$

$$\text{Number of male employees} = 100 - 40 = 60$$

Let the average age of male and female be $6x$ and $7x$ respectively

According to question

$$60 \times 6x + 40 \times 7x = 32 \times 100$$

$$\Rightarrow 360x + 280x = 3200$$

$$\Rightarrow 640x = 3200$$

$$\Rightarrow x = 5$$

∴ Average age of male employees = $6x = 30$ years

Q:5 The correct answer is **Option 4** i.e. **46 years**

Total age of 20 pupils of Aryabhata = $20 \times 25 = 500$ years

Total age of 21 people including Aryabhata = $21 \times 26 = 546$ years

∴ Age of Aryabhata = $546 - 500 = 46$ years

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Q:6 The correct answer is **option 2** i.e. **1 year**.

4 year ago, total age of 6 members of family = $6 \times 25 = 150$ years

Now, total age of 6 members = $150 + 6 \times 4 = 150 + 24 = 174$ years

Also in present

Total age of 7 members of family = $7 \times 25 = 175$ years

\therefore The present age of the child = $175 - 174 = 1$ year

Q:7 The correct answer is **Option 2** i.e. **34.5**

Let four consecutive numbers be $k, k + 1, k + 2, k + 3$

When common difference is same then = Average = $(\text{first term} + \text{last term})/2$

According to question,

$$(k + k + 3)/2 = 67.5$$

$$\Rightarrow 2k + 3 = 135$$

$$\Rightarrow 2k = 132$$

$$\Rightarrow k = 66$$

The four consecutive numbers are = 66, 67, 68 and 69

The number which is divisible by 4 = 68

Natural numbers below 68 = 1, 2, 3, 4, ----, 68

\therefore Required average $(1 + 68)/2 = 69/2 = 34.5$

Q:8 The correct answer is **option 4** i.e. **74 kg**

Given

Total number of students = 27

Initially the total weight = $27 \times 43 = 1161$ kg

Now, the total weight when a student has been replaced = $27 \times 42 = 1134$ kg

Decrease in weight = $1161 - 1134 = 27$ kg



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It means the weight of the new student is 27 kg less than that of the replaced student

\therefore Weight of the replaced student = Weight of the new student + decrease in weight = $47 + 27 = 74$ kg

Q:9 The correct answer is **option 1** i.e. **197.5**

Average of 5 numbers = 150

First number = 40% of 150 = 60

Second number = 65% of 150 = 97.5

Also, $150 = (60 + 97.5 + \text{sum of remaining 3 numbers})/5$

$750 = 157.5 + \text{sum of remaining 3 numbers}$

Sum of remaining 3 numbers = $750 - 157.5$

Sum of remaining 3 numbers = 592.5

Required average = $592.5/3 = 197.5$

Q:10 The correct answer is **option 1** i.e. **Rs. 4991**

Average of n numbers = Sum of n numbers/n

Let the amount spend in 6th month be Rs. x

According to the question,

$(6435 + 6855 + 7230 + 6989 + 6500 + x)/6 = 6500$

$x = 4991$

$34009 + x = 39000$

$x = 4991$

So, this is it for today. We will meet again with another new topic. Till then, you can practice the questions again by downloading the PDF of Average.