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Average Questions with solutions PDF

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 The average temperature of a city on five consecutive days was 36.32° C. If the average temperature on first three days and last three days were 36° C and 37° C. What is the temperature on the third day? (in °C)

1. 36.2

2. 36.8

3. 37.4

4. 37.8

(**Difficulty:** 4, **Estimated Time:** 25 Seconds) An easy one to start with!

Q:2 The average run of 20 innings of a batsman is 58. If he makes 305 runs in the last five innings, find the average run of remaining innings.

1. 59

2. 58

3. 57

4. 56

(**Difficulty:** 4, **Estimated Time:** 25 Seconds) It is not an easy one but I think now you're prepared for it. Did you guess it right?

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Q:3 Average height of a group of 12 persons is 5 feet 3 inch. If 3 persons from the group are replaced by a person whose height is 6 feet, the average height becomes 5 feet 3.6 inch. Find the average height of 3 persons who left.

1. 5 feet 3 inch

2. 5 feet 4 inch

3. 5 feet 2 inch

4. 5 feet 4.5 inch

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Another easy one, make sure to solve these with accuracy!

Q:4 Find the average of all co-prime numbers of 5 between 25 and 30.

1. 28.5

2. 27.5

3. 28

4. 27

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) This was quite easy!

Q:5 If a 39-year-old man is replaced by a new man, then the average age of 28 men increases by 1.5 years. What is the age of the new man?

1. 79 years

2. 54 years

3. 81 years

4. 41 years

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

Q:6 What is the average of first 20 multiples of 21 and first 20 multiples of 25?

1. 235.5

2. 238.5

3. 241.5

4. 245.5

(**Difficulty:** 4, **Estimated Time:** 30 Seconds) These questions are quite common!

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Q:7 The average of the 9 persons increases by 2.25 kg when one of them is replaced with another person whose weight is 45 Kg. Find the weight of the replaced person.

1. 65 kg

2. 47.25 kg

3. 65.25 kg

4. 85.75 kg

(**Difficulty:** 4, **Estimated Time:** 25 Seconds) A Question of seconds!

Q:8 If a hostel's mess owner expends Rs.5000 on vegetables, Rs.3000 on spices, and Rs.6500 on gas services per month for 50 students then, what is the monthly average expenditure per student of his hostel's mess?

1. 270

2. 280

3. 285

4. 290

(**Difficulty:** 4, **Estimated Time:** 25 Seconds) Tough questions alert!

Q:9 What is the ratio of the average of the first 5 multiples of 3 and the first 3 multiples of 5?

1. 9 : 10

2. 10 : 13

3. 7 : 11

4. 11 : 14

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

Q:10 The average expenditure of Raj for January to June is Rs. 8400 and he spends Rs. 2400 in January and Rs. 3000 in July. What is his average expenditure for the months of February to July?

1. Rs. 8400

2. Rs. 8500

3. Rs. 7800

4. Rs. 6800

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) Did you guess them all correctly?

Answer Key

Let's check out your score in this test.

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

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. **37.4**.

The sum of temperatures on the first 3 days + The sum of temperatures on the last three days = The sum of temperatures on 5 days + The temperature on 3rd day

Sum = Average × Number of observations

$\Rightarrow$ 36 × 3 + 37 × 3 = 36.32 × 5 + Temperature on third day

$\Rightarrow$ 219 = 181.6 + Temperature on the third day

Temperature on third day = 37.4° C

Q:2 The correct answer is **option 3** i.e. **57**

The average run of 20 innings = 58

Total run in five innings = 305

Total run in 20 innings = 58 × 20 = 1160

The run of remaining 15 innings = 1160 - 305 = 855

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The average run of 15 innings = 855/15 = 57

Q:3 The correct answer is **option 2** i.e. **5 feet 4 inch.**

We can see:

The average height is increased from 5 feet 3 inch to 5 feet 3.6 inch.

Converting into decimal:

5 feet 3 inch = 5 + 3/12 = 5.25

5 feet 3.6 inch = 5 + 3.6/12 = 5.3

Hence, it is increased by 0.05

Suppose 'x' is the average height of 3 persons who left.

So, Decreased total height

= 12 × 5.25 − 3x + 6.0

So, 12 × 5.25 − 3x + 6.0 = 5.3 × 10

⇒ 63 − 3x + 6.0 = 53

⇒ 3x = 16

⇒ x = 5.33 or 5 feet 4 inch

Q:4 The correct answer is **option 2** i.e. **27.5.**

Co-Prime Number

Two **numbers** are **coprime** if their highest common factor (or greatest common divisor) is 1

m = sum of the terms/number of terms

Where, m = Average

The co-prime no. of 5 between 25 to 30 is 26, 27, 28, 29

Average $= \frac{(26+27+28+29)}{4} = \frac{110}{4}$

= 27.5

Average Questions with solutions PDF

Q:5 The correct answer is **Option 3** i.e. **81 years.**

Average age × Number of Men = Total age

Let initially the average age of 28 men be x.

Total age of 28 men = 28x

A 39 year old man is replaced by a new man -

New Total age = 28 × (x + 1.5)

28 × (x + 1.5) - 28x = Age of the New man - 39

28x + 42 - 28x = Age of the New man - 39

Age of the New man - 39 = 42

Age of the New man = 42 + 39 = 81 years

Q:6 The correct answer is **option 3** i.e. **241.5**

Average of first 'n' multiples of a = {2a + (n − 1) a} /2 [∵ Sum of A.P. = n/2 × {2a + (n − 1) d}]

Average of first 20 multiples of 21 = {2 × 21 + 19 × 21} /2 = 441/2 ⇒ 220.5

Average of first 20 multiples of 25 = {2 × 25 + 19 × 25} /2 = 525/2 ⇒ 262.5

Since both have 20 number of observation

Final average = (220.5 + 262.5) /2

⇒ 483/2

⇒ 241.5

Q:7 The correct answer is **option 3** i.e **65.25 kg.**

Average increased = (9 × 2.25) = 20.25 kg

Weight of the new person = (45 + 20.25) = 65.25 kg

Q:8 The correct answer is **option 4** i.e. **290.**

Total expenditure = (vegetables + spices + gas services)

Total expenditure = (5000 + 3000 + 6500) = 14500

Average Expenditure per student = 14500/50 = Rs. 290

Q:9 The correct answer is **Option 1** i.e. **9 : 10.**

Average = Sum of all the numbers/Total numbers

First 5 multiples of 3 = 3, 6, 9, 12, 15

First 3 multiples of 5 = 5, 10, 15

Average of first 5 multiples of 3 = (3 + 6 + 9 + 12 + 15)/5 = 45/5 = 9

Average of first 3 multiples of 5 = (5 + 10 + 15)/3 = 30/3 = 10

Required ratio = Average of first 5 multiples of 3 : Average of first 3 multiples of 5 = 9 : 10

Q:10 The correct answer is **option 2** i.e. **Rs. 8500**

⇒ Average expenditure of Raj from Jan to June = Total expenditure/6 = 8400

⇒ Total expenditure = 8400 × 6 = 50400

Total expenditure from Feb to June = 50400 − 2400 = 48000

⇒ Total expenditure from Feb to July = 48000 + 3000 = 51000

⇒ Average expenditure from Feb to July = 51000/6 = 8500

∴ The required average expenditure of Raj from Feb to July is Rs. 8500

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.