

**IEM KOLKATA****AVERAGE**

Instructor: Akash Bhattacharya

Q1) Knowing that Vijay's expenditure for first 3 days is ₹100, ₹125 and ₹85, what is his 4th day expenditure as his 4 days average expenditure is ₹90?

Q2) What will be average price of all the goods bought, if Ajay buys 30 erasers for ₹3 each, 35 pencils for ₹10 each and 25 clips at rate of ₹4 each?

Q3) Consider two-digit numbers which remain the same when the digits interchange their positions. What is the average of such two-digit numbers?

(a) 33 (b) 44 (c) 55 (d) 66

Q4) 3 boxes have some weight. When one box which weighs 89 kg is replaced by another box, the average weight increases by 5kg. How much does the new box weigh?

Q5) The mean marks of 180 students is 52. If the mean of passed students is 59 and that of failed students is 23, find the number of passed and failed students.

Q6) The average salary of all workers in a factory is ₹14000. The average salary of all 80 skilled workers is ₹15000 & the average salary of the remaining workers is ₹12000. Find the total number of workers in the factory?

(a) 140 (b) 150 (c) 110 (d) 120

Q7) If average weight of 27 students of a class is 53kg. If the weight of the teacher is included, the average rises by 700 grams. Find the weight(in kg) of the teacher.

(a) 65.5 kg (b) 78.3 kg (c) 62.8 kg (d) 72.6 kg

Q8) The average weight of 10 workers travelling in a boat is increased by 2.8kg, when one of the workers, who weighs 58kg, is replaced by a new worker. Find the weight of the new worker.

(a) 86kg (b) 84 kg (c) 82 kg (d) 68 kg

Q9) The average weight of 45 students of a school is 55kg. If the weight of the teacher is included, the average weight rises by 300 grams. Find the weight of the teacher.

(a) 69.8kg (b) 67.8kg (c) 70.8kg (d) 68.8kg