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Average Questions for Bank Clerk Pre Exams.

Average Quiz 10

Directions: Kindly study the following Questions carefully and choose the right answer:

1. There are 14 people in a family and the average age of all the family members is 30 years. A new baby born in a family, After 4 years what will be the average age of the all family members?

A. 30 years   B. 35 years   C. 28 years   D. 33 years   E. None of these

2. Mahima bought 20 kg pasta for Rs 30 per kg, m kg pasta for Rs 35 per kg and (m + 4) kg pasta for Rs 25 per kg. She mixed all type of pasta together and the average cost price of 1 kg pasta is Rs 29.6. Find the quantity of pasta that is bought at Rs 25 per kg.

A. 12 kg   B. 20 kg   C. 13 kg   D. 22 kg   E. None of these

3. The average salary per head of all the workers of an office is Rs 95. The average salary of 15 officer is Rs 525 and the average salary of the rest is Rs 85. Find the total numbers of workers.

A. 645   B. 660   C. 670   D. 650   E. None of these

4. The average weight of three students A, B and C is 88.5kgs while the average weight of the other three students, D , F and G is 83.5 kg. What is the average weight of A, B, C, F and J?

A. 83.8 kg   B. 82.4 kg   C. 83.2 kg   D. Data inadequate   E. None of these

5. There are 25 students in a class and the average of their ages is 15 years. The average age of the first 12 students is 14 and the average age of the last 12 students is 16. If the age of Amrutha is 5 years more than the age of 13th student, find the age of Amrutha.

A. 12   B. 15   C. 20   D. 25   E. 30

6. A batsman has a certain average of runs for 12 innings. In the 13th inning, he scores 96 runs thereby increasing his average by 5 runs. What is his average after the 13 innings?

A. 48   B. 64   C. 31   D. 36   E. None of these

7. The average age of a group of 20 persons is 18.25 years. Some new persons with an average age of 16 years join the group, now the average age of the group becomes 17 years. Find the number of persons who join the group.

A. 30 B. 25 C. 21 D. 18 E. None of these

8. Sachin has a certain average of runs for 5th innings. In the 6th inning he scores 54 runs, thereby his average decreased by 1 run. If in the 7th inning he scores 5 run more than the 6th inning, find his average run after 7th inning.

A. 60 B. 59 C. 56 D. 45 E. None of these

9. The average height of 35 models in a modeling competition was calculated as 160 cm. It was later found that the height of one of the models in the competition was written as 144 cm, whereas his actual height was 104 cm. What is the actual average height of the models in the competition?

A. 159.86 cm B. 157.54 cm C. 159.56 cm D. 160.74 cm E. None of these

10. The total sales of 60 outlets of a shopping complex is Rs. 38000. The average sales of 20 of them is Rs. 400. The average sales of another 10 of them is Rs. 900. Find the average sale of the remaining outlets (in rupees).

A. 650 B. 600 C. 700 D. 500 E. None of these

Correct Answers:

1	2	3	4	5	6	7	8	9	10
E	E	B	D	C	D	B	B	E	C

Explanations:

1. The total age of all family members = 30 × 14 = 420

New baby born and after 4 years the total age of all the members = 420 + 15 × 4

= 420 + 60 = 480

Reqd. average = $\dfrac{480}{15}$ = 32 years

Hence, option E is correct.

2. According to the question,

20 × 30 + m × 35 + (m + 4) × 25 = 29.6 × (20 + m + m + 4)

600 + 35m + 25m + 100 = 29.6 × (24 + 2m)

700 + 60m = 710.4 + 59.2m

710.4 − 700 = 60m − 59.2m

10.4 = 0.8m

m = 13

Quantity of pasta that is bought at Rs 25 per kg = 13 + 4 = 17 kg

Hence, option E is correct.

3. Let total no. of workers = x

Total salary = x × 95   **..... (i)**

again, as per the question

Total salary = 15 × 525 + (x − 15) × 85   **..... (ii)**

From **(i)** & **(ii)**

⇒ x × 95 = 15 × 525 + (x − 15) × 85

⇒ 95x − 85x = 7875 − 1275

⇒ 10x = 6600

⇒ x = 660

Hence, option B is correct.

4. We have to determine the average weight of

A, B, C, F and J.
But this can't be determined as we
don't know the Score of J.
Hence the data is inadequate to solve the given question.
Therefore, option (D) is correct.

5. Total age of 25 students = 15 × 25 = 375
Total age of first 12 students = 12 × 14 = 168
Total age of last 12 students = 12 × 16 = 192
The age of 13th student = 375 − (168 + 192)
= 375 − 360 = 15
Amrutha's age = 15 + 5 = 20 years
Hence, option C is correct.

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6. Let the average of 12 innings be a

Then after 13 innings, $\dfrac{12a + 96}{13} = a + 5$

⇒ 12a + 96 = 13a + 65
⇒ a = 31
⇒ his new average after 13 innings = 31+5 = 36
Hence, option D is correct.

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7. Let x persons join the group
According to the question,
20 × 18.25 + x × 16 = (x + 20) × 17
365 + 16x = 17x + 340
365 − 340 = 17x − 16x
x = 25
Hence, option B is correct.

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8. Let the average run for 5th inning = x
5x + 54 = 6 (x − 1)
5x + 54 = 6x − 6
6 + 54 = 6x − 5x
x = 60
His run in the 7th inning = 54 + 5 = 59
Total runs after 7th inning = 59 + 60 × 5 + 54 = 113 + 300 = 413

Average runs after 7th inning = $\dfrac{413}{7}$ = 59

Hence, option B is correct.

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9. Total height of models = 35 × 160 = 5600 cm
When actual height of models is calculated, we get = 5600 − (144 − 104) = 5600 − 40 = 5560 cm
Total actual height = 5560

∴ Average actual height = $\dfrac{5560}{35}$ = 158.86 cm

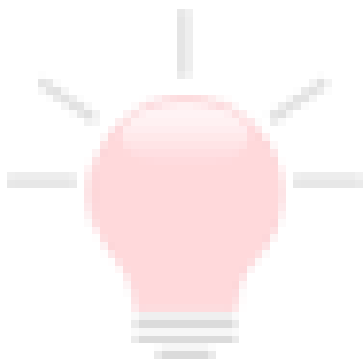Hence, option (E) is correct.

10. Total sales = Rs. 38000.

The total sales from 20 outlets = 20 × 400 = Rs. 8000.

The total sales from 10 outlets = 10 × 900 = Rs. 9000

The total sales of the remaining 30 outlets = Rs. (38000 − 8000 − 9000) = Rs. 21000

Average sales = $\dfrac{21000}{30}$ = 700

Hence, option C is correct.