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Average Questions for SBI PO Pre Exams

Average Quiz 16

Direction: Read the following questions carefully and choose the right answer.

- The average weight of a class of 42 students increases from 63 kg to 67.5 kg when three new students join the class. What is the average weight (in kg) of new students?

A. 132 B. 127.5 C. 128.33 D. 130.5 E. 133.33
- A man spends exactly Rs. 1,600 to buy some books at Rs. 16 each and some pens at Rs. 24 each. How many pens did he buy?

A. 40 B. 50 C. 60 D. 72 E. CND
- The average price of 23 articles is Rs. 2,000. The prices of 3 cheapest articles are in the ratio 8 : 9 : 11. If the price of the cheapest article is Rs. 400, what is the average price of the costliest 20 articles?

A. Rs. 2,150 B. Rs. 2,230 C. Rs. 2,450 D. Rs. 2,700 E. CND
- The average of 18 numbers is 60 and after removing highest and lowest number the average of remaining numbers becomes 58. If the difference between the highest and lowest number is 30. What is the value of highest number?

A. 98 B. 64 C. 91 D. 105 E. 84
- The average age of a club of 60 members is 24 years and it becomes 26 years when four new members join the club. What is the average age (in years) of the new members?

A. 62 B. 48 C. 58 D. 56 E. 52

6. The average of 10 numbers is 52, the average of first four and last four numbers is 68 and 34 respectively. If the difference between the fifth and sixth numbers is 16, what can be the ratio of fifth and sixth number?
- A. 90 B. 105 C. 95 D. 80 E. 85
7. The average weight of a group of 16 students is 32kg, it becomes 31kg when 2 new students with average weight 'X'kg join the group and 34kg after 6 more students with average weight 'Y'kg join the group. What is the sum (in kg) of X and Y?
- A. 72 B. 66 C. 58 D. 62 E. 68
8. The average of 23 numbers is 40. If the average of the first 12 numbers is 34 and the average of the last 12 numbers is 49, find the 12th number.
- A. 55 B. 76 C. 61 D. 82 E. 73
9. The average of P, Q and R is 27 and the average of Q, R and S is 24. If the value of S is $\frac{2}{3}$ rd the value of P, find the value of S.
- A. 13 B. 17 C. 36 D. 27 E. 18
10. The average weight of a group of five friends increases from 48kg to 52.5kg when one of them gains weight and the weight of rest of them remains same. If the weight of the person who gains weight is 84kg now what was his weight (in kg) previously?
- A. 62.5 B. 64.5 C. 58.5 D. 61.5 E. 55.5



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Correct Answers:

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

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Explanation:

1. Total weight of new students = $45 \times 67.5 - 42 \times 63 = 391.5$ kg

Average weight of new students

$$= \frac{391.5}{3} = 130.5 \text{ kg}$$

Hence, option D is correct.

2. There can be many possible answers.

So the answer can't be determined.

Hence, option E is correct.

3. Price of the cheapest article = 400

Price of the three cheapest articles = $400 + 450 + 550 = 1,400$

So the answer = $\frac{23 \times 2000 - 1400}{20} = 2230$

Hence, option B is correct.

4. Let the highest and lowest number be H and L

$$H + L = 18 \times 60 - 58 \times 16$$

$$H + L = 152$$

$$H - L = 30$$

Solving we get, $H = 91$

Hence, Option C is correct.

5. Total age of four new members = $64 \times 26 - 60 \times 24 = 224$

Average age of new members

$$= \frac{224}{4} = 56 \text{ years}$$

Hence, Option D is correct.

6. Let the fifth and sixth number be F and S

$$F + S = 10 \times 52 - 4(68 + 34)$$

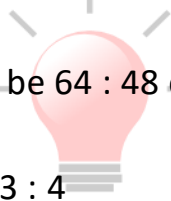
$$F + S = 112$$

$$F - S \text{ or } S - F = 16$$

Value of F and S is 64 and 48

Ratio can be 64 : 48 or 48 : 64

$$= 4 : 3 \text{ or } 3 : 4$$



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Hence, Option C is correct.

7. Initially students = 16, then 18 and after that 24

Initially average weight = 32 kg, then 31 kg and after that 34 kgs

$$X = \frac{(18 \times 31 - 16 \times 32)}{2} = 23$$

$$Y = \frac{(24 \times 34 - 18 \times 31)}{6} = 43$$

$$X + Y = 23 + 43 = 66 \text{ kg}$$

Hence, Option B is correct.

8. Sum of all the numbers = $23 \times 40 = 920$.

Sum of first 12 numbers = $12 \times 34 = 408 = P$ (Let)

Sum of last 12 numbers = $12 \times 49 = 588 = Q$ (Let)

$P + Q - 12^{\text{th}} \text{ number} = \text{Sum of all numbers (as } 12^{\text{th}} \text{ number is included twice)}$.

$12^{\text{th}} \text{ number} = 408 + 588 - 920 = 76$

Hence, Option B is correct.

9. $P + Q + R = 3 \times 27 = 81$

$Q + R + S = 24 \times 3 = 72$

Subtracting, we get $-$

$P - S = 9$

$S = \frac{2}{3} \text{ of } P \Rightarrow P = \frac{3}{2} \text{ of } S$

$\frac{3}{2} \times S - S = 9$

$\frac{1}{2} \times S = 9$

$S = 18$

Hence, Option E is correct.



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10. Change in average weight = $52.5 - 48 = 4.5$

Total change in weight = $4.5 \times 5 = 22.5$

Let the previous weight be X

$$X + 22.5 = 84$$

$$X = 61.5 \text{ kg}$$

Hence, option D is correct.



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