



Averages Questions For SSC MTS

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Instructions

For the following questions answer them individually

Question 1

A batsman scores 34, 36, 38, 40, 42 in his 5 innings respectively. Find the average runs in his 5 innings ?

- A 38
- B 38.5
- C 39
- D 39.5

Answer: A

Explanation:

Average = $(34+36+38+40+42)/5 = 190/5 = 38$

Shortcut:

34, 36, 38, 40, 42 are in AP

So average = middle number (in case of odd count)

average = average of middle two numbers (in case of even count)

here we have 5 numbers, odd count

So average = middle number = 38

SO the answer is option A.

Question 2

The average of 5 consecutive even numbers is 44. Find the largest number in that series ?

- A 44
- B 46
- C 48
- D 50

Answer: C

Explanation:

Let $x-4, x-2, x, x+2, x+4$ are the 5 consecutive even numbers

Average = $x = 44$

Largest number = $x+4 = 48$

So the answer is option C.

Question 3

The average weight of P, Q and R is 42 kg. If the average weight of P and Q be 35 kg and that of Q and R be 50 kg, then what is the weight (in kgs) of Q?

- A 26
- B 44
- C 56
- D 54

Answer: B

Explanation:

$$P+Q+R = 42*3 = 126 \text{ -----(1)}$$

$$Q+R = 50*2 = 100 \text{ -----(2)}$$

$$P+Q = 35*2 = 70 \text{ -----(3)}$$

$$(2)+(3)-(1)$$

$$Q+R+P+Q-P-Q-R = 100+70-126$$

$$Q = 44$$

So the answer is option B.

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Question 4

The Average of three numbers is 6.66. The first number is 1/4th the sum of other two. What is the value of first number?

A 8

B 6

C 4

D 2

Answer: C

Explanation:

Let those 3 numbers are a, b, c

$$a+b+c = 6.66*3 = 20 \text{ -----(1)}$$

Given that,

$$a = (1/4)(b+c)$$

$$4a = b+c$$

$$5a = a+b+c$$

$$5a = 20$$

$$a = 4$$

So the answer is option C.

Question 5

The average of 5 consecutive natural numbers is 38. What is the largest of these 5 numbers?

A 39

B 40

C 41

D 42

Answer: B

Explanation:

Let those numbers are x-2, x-1, x, x+1, x+2

$$\text{Average of these 5 numbers} = \frac{x-2+x-1+x+x+1+x+2}{5} = x = 38$$

Largest number = $x+2 = 38+2 = 40$

So the answer is option B.

Question 6

The average weight of 50 students is 32 kg. The average weight of first 24 students is 30 kg and of last 25 students is 34 kg. What is the weight (in kg) of the 25th student?

- A 34
- B 32
- C 30
- D 28

Answer: C

Explanation:

Total wt of 50 students = wt of 1st 24 students + wt of 25th student + wt of last 25 students

$$50 \times 32 = 24 \times 30 + \text{wt of 25th student} + 25 \times 34$$

$$1600 = 720 + \text{wt of 25th student} + 850$$

$$1600 = 1570 + \text{wt of 25th student}$$

$$\text{wt of 25th student} = 1600 - 1570 = 30$$

So the answer is option C.

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Question 7

If the average score of MS Dhoni in his first 99 matches is 52. What would be his new average, if he had scored 183 runs in his 100th match ?

- A 55.51
- B 54.41
- C 52.21
- D 53.31

Answer: D

Explanation:

$$\text{Total score in 99 matches} = 99 \times 52 = 5148$$

$$\text{Total score in 100 matches} = 5148 + 183 = 5331$$

$$\text{New average} = 5331 / 100 = 53.31$$

So the answer is option D.

Question 8

If the average age of 10 students is 16. If the age of their teacher is added, then average becomes 117. Find the age of the teacher ?.

- A 25
- B 27

C 29

D 31

Answer: B

Explanation:

Sum of ages of students = $10 \times 16 = 160$

Let k be the age of their teacher

New average = 17

$$\frac{160+k}{10+1} = 17$$

$$\frac{160+k}{11} = 17$$

$$160 + k = 187$$

$$k = 27$$

So the answer is option B.

Question 9

The average age of four boys is 24 years. If the ratio of their ages is 7:9:3:5, what is the age of the youngest boy ?

A 12

B 15

C 18

D 21

Answer: A

Explanation:

Total age of 4 boys = $24 \times 4 = 96$

$$\text{Age of youngest guy} = \frac{3}{7+9+3+5} \times 96 = \frac{3}{24} \times 96 = 12$$

So the answer is option A.

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Question 10

In a city the ratio of buses, cars and bikes is 3:5:13 respectively. If the average of all three types of vehicles is 6741. Then find the number of cars in the city ?

A 4815

B 4155

C 4555

D 4665

Answer: A

Explanation:

let the number of buses = $3k$

no. of cars = $5k$

no.of bikes = 13k

Total no.of vehicles = 3*(6741)

==>3k+5k+13k = 20223

==>21k = 20223

==>k = 963.

No.of cars = 5k = 5(963) = 4815/-

So the answer is option A.

Question 11

Ravi bought 2 mobiles, one for 3999/- and another for 29999/-. Find the average cost per mobile ?

A 16999/-

B 16998/-

C 15999/-

D 15998/-

Answer: A

Explanation:

Average = $\frac{3999+29999}{2} = \frac{33998}{2} = 16999/-$

So the answer is option A.

Question 12

Find the average of 34, 56, 78, 90, 123, 45 ?

A 73

B 72

C 71

D 70

Answer: C

Explanation:

Average of 34, 56, 78, 90, 123, 45 = $\frac{34+56+78+90+123+45}{6} = \frac{426}{6} = 71$

So the answer is option C.

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Question 13

Find x, if the average of 12, 23, 34, 45, x, 67 is 41 ?

A 56

B 65

C 76

D 67

Answer: B

Explanation:

Average of 12, 23, 34, 45, x , 67 = 41

$$\frac{12+23+34+45+x+67}{6} = 41$$

$$181 + x = 246$$

$$x = 246 - 181 = 65$$

So the answer is option B.

Question 14

The average weight of 36 students is 18 Kg. If the candidate with the highest weight is removed, the average weight dropped by 0.5 kg. What is the weight of the omitted candidate?

- A 38 kgs
- B 43 kgs
- C 37.5 kgs
- D 35.5 kgs

Answer: D

Explanation:

Total weight of 36 students = $18 * 36 = 648$ kg.

New average after omitting the candidate who weighs highest = $18 - 0.5 = 17.5$ Kg.

Total weight of the 35 remaining students = $17.5 * 35 = 612.5$ kg.

So, the weight of omitted candidate = $648 - 612.5 = 35.5$ kg.

Therefore, option D is the right answer.

Question 15

The average of 13 natural numbers is 64. If the highest and lowest numbers are removed, then the average will drop by 2. If the highest and lowest numbers are in the ratio of 2:3, what is the highest number?

- A 75
- B 100
- C 90
- D 85

Answer: C

Explanation:

The sum of all natural numbers = $13 * 64 = 832$.

New average after omitting the highest and lowest numbers = $64 - 2 = 62$.

The sum of remaining 11 natural numbers = $11 * 62 = 682$.

Therefore, sum of the lowest and highest number = $832 - 682 = 150$.

The lowest and highest numbers are in the ratio of 2:3.

Therefore, the highest number will be = $\frac{3}{5} * 150 = 90$.

Hence, option C is the right answer.

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Question 16

The average of 16 numbers is 15. The number that should be added to this group to increase the average by 3 is

- A 66
- B 68
- C 64
- D 62

Answer: A

Explanation:

Sum of all 16 numbers = $16 \times 15 = 240$.

After adding the new number, the total number count will be = $16 + 1 = 17$.

We want the average to go up by 3 points. Therefore, the new average is $15 + 3 = 18$.

Sum of all the numbers including the newly added number = $17 \times 18 = 306$.

Hence, the newly added number will be $306 - 240 = 66$.

Therefore, option A is the right answer.

Question 17

The average of 8 consecutive integers is $23\frac{1}{2}$. What is the average of first three integers?

- A 9
- B $19\frac{1}{2}$
- C 8
- D 10

Answer: A

Explanation:

Let the 8 consecutive integers be = $(x), (x + 1), (x + 2), (x + 3), (x + 4), (x + 5), (x + 6)$ and $(x + 7)$

Sum of integers = $(x) + (x + 1) + (x + 2) + (x + 3) + (x + 4) + (x + 5) + (x + 6) + (x + 7) = \frac{23}{2} \times 8$

$$\Rightarrow 8x + 28 = 92$$

$$\Rightarrow 8x = 92 - 28 = 64$$

$$\Rightarrow x = \frac{64}{8} = 8$$

$$\therefore \text{Average of first three integers} = \frac{(8) + (8+1) + (8+2)}{3}$$

$$= \frac{27}{3} = 9$$

\Rightarrow Ans - (A)

Question 18

What is the average of first 7 multiples of 7?

- A 7
- B 14
- C 21
- D 28

Answer: D

Explanation:

First 7 multiples of 7 = 7,14,21,28,35,42,49

$$\Rightarrow \text{Sum} = 7(1 + 2 + 3 + 4 + 5 + 6 + 7) = 7 \times 28$$

$$\Rightarrow \text{Average} = \frac{7 \times 28}{7} = 28$$

\Rightarrow Ans - (D)

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Question 19

What is the average of first 11 multiples of 11?

A 22

B 44

C 55

D 66

Answer: D

Explanation:

First eleven multiples of 11 will form an arithmetic progression : 11,22,33,.....,121

First term, $a = 11$ and common difference, $d = 11$

$$\text{Sum of } n \text{ terms} = \frac{n}{2}(a + l)$$

$$\Rightarrow S_{11} = \frac{11}{2}(11 + 121)$$

$$= 11 \times 66$$

$$\text{Now, average of 11 terms} = \frac{11 \times 66}{11} = 66$$

\Rightarrow Ans - (D)

Question 20

Average of 14 numbers is 32. If the average of last 5 numbers is 26, then what is the average of the remaining numbers?

A 35.33

B 41.33

C 27.5

D 44.5

Answer: A

Explanation:

Average of 14 numbers = 32

$$\Rightarrow \text{Sum of 14 numbers} = 32 \times 14 = 448$$

Average of last 5 numbers = 26

$$\Rightarrow \text{Sum of last 5 numbers} = 26 \times 5 = 130$$

$$\text{Thus, sum of remaining (14-5) 9 numbers} = 448 - 130 = 318$$

∴ Required average = $\frac{318}{9} = 35.33$

=> Ans - (A)

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