



Averages Questions For IBPS SO Set-2 PDF

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Instructions

For the following questions answer them individually

Question 1

The average of five numbers is 57.8. The average of the first and the second numbers is 77.5 and the average of the fourth and fifth numbers is 46. What is the third number ?

- A 45
- B 43
- C 42
- D Cannot be determined
- E None of these

Answer: C

Explanation:

Let the numbers be a, b, c, d and e.

$$\text{Now } \frac{a+b+c+d+e}{5} = 57.8 \times 5$$

$$a+b+c+d+e = 292$$

$$\text{Now, } \frac{a+b}{2} = 77.5, a+b = 155$$

$$\text{Also, } \frac{d+e}{2} = 46, d+e = 92.$$

$$\text{Now, } c = 292 - (a+b) - (d+e) = 292 - 155 - 92 = 42.$$

Hence, the correct option is C.

Question 2

The average of five numbers is 49 the average of the first and the second numbers is 48 and the average of the fourth and fifth number is 28. What is the third number ?

- A 92
- B 91
- C 95
- D Cannot be determined
- E None of these

Answer: E

Explanation:

Let the numbers be a, b, c, d, e.

$$\text{Hence } (a+b+c+d+e)/5 = 49$$

$$(a+b)/2 = 48, a+b = 96.$$

$$(d+e)/2 = 28, d+e = 56$$

$$c = 245 - 96 - 56 = 93$$

Question 3

The average speed of a train is 3 times the average speed of a car . The car covers a distance of 520 kms in 8 hours .how much distance will the train cover in 13 hours ?

- A 2553 kms
- B 2585 kms
- C 2355 kms
- D 2535 kms
- E None of these

Answer: D

Explanation:

Let speed of train be x and speed of car be y .

Car covers 520km in 8 hrs, it's speed = $520/8 = 65\text{km/hr}$

Speed of train = $3 * 65 = 195\text{km/hr}$

Distance covered by train in 13 hrs = $13 * 195 = 2535\text{km}$

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Question 4

The average score of a cricketer for 13 matches is 42 runs. If the average score for the first 5 matches is 54, then what is his average score (in runs) for last 8 matches?

- A 37
- B 39
- C 34.5
- D 33.5
- E 37.5

Answer: C

Explanation:

The average score of a cricketer for 13 matches is = 42 runs

Total score in 13 matches will be = $42 * 13 = 546$

Total score of first 5 matches will be = $54 * 5 = 270$

Hence, total score of last 8 matches = $546 - 270 = 276$

So average of the last 8 matches will be = $\frac{276}{8} = 34.5$

Question 5

The average weight of 21 boys was recorded as 64kg. If the weight of the teacher is added, the average increased by one kg. What was the teacher's weight?

- A 86 kg
- B 64 kg
- C 72 kg
- D 98 kg
- E None of these

Answer: A

Explanation:

The average weight of 21 boys is 64 Kgs.

The average weight of 21 boys and the teacher is 65 Kgs.

So, total weight of 21 boys is $21 \times 64 = 1344$

The weight of 21 boys and the teacher = $22 \times 65 = 1430$

Hence, the weight of the teacher is $1430 - 1344 = 86$ Kgs

Question 6

Find the average of the following sets of sources.

253, 124, 255, 534, 836, 375, 101, 443, 760

A 427

B 413

C 441

D 490

E None of these

Answer: E

Explanation:

There are 9 numbers in the series:

$$\text{Average} = \frac{253+124+255+534+836+375+101+443+760}{9} = \frac{3681}{9} = 409$$

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Question 7

The average of four consecutive numbers A, B, C and D respectively is 49.5. What is the product of B and D?

A 2499

B 2352

C 2450

D 2550

E None of these

Answer: A

Explanation:

Since the ages of A, B, C, D are consecutive

Let the ages of A, B, C, D be $n, n+1, n+2, n+3$

$$\frac{n+n+1+n+2+n+3}{4} = 49.5$$

$$4n+6 = 49.5 \times 4 = 198$$

$$4n = 192$$

$$n = 48$$

Ages of A, B, C, D = 48, 49, 50, 51

Product of ages of B and D = $49 \times 51 = (50-1)(50+1) = 50^2 - 1 = 2500 - 1 = 2499$.

Question 8

**What will be the average of the following set of scores (rounded of to the nearest integer)?
62, 76, 42, 84, 21, 47, 28**

- A 57
- B 54
- C 51
- D 62
- E 66

Answer: C

Explanation:

We can calculate the average as follows

$$= \frac{62+76+42+84+21+47+28}{7} = 51.42$$

Question 9

**What will be the average of the following set of scores ?
48, 47, 64, 91, 72, 68, 93**

- A 65
- B 69
- C 72
- D 61
- E 75

Answer: B

Explanation:

Average of the given scores can be calculated as

$$\frac{48+47+64+91+72+68+93}{7} = \frac{483}{7} = 69$$

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Question 10

The average of four consecutive numbers A,B,C and D respectively is 56.5 What is the product of A and C ?

- A 3363
- B 3306
- C 3192
- D 3080
- E None of these

Answer: E

Explanation:

Let $A = x$

$B = x + 1$

$C = x + 2$

$D = x + 3$

Now, average = 56.5

$(A + B + C + D) / 4 = 56.5$

$4x + 6 = 56.5 * 4$

$4x + 6 = 226$

$4x = 220$

$x = 55$

Therefore A, B, C and D are 55, 56, 57 and 58 respectively.

Product of A and C = $55 * 57 = 3135$

Question 11

The average score of a cricketer in 18 matches was 56.5. If he made 101 runs and 123 runs in 19th and 20th match respectively. What is his new average score in all the twenty matches?

A 62.05

B 64.45

C 60.75

D 61.25

E 63.85

Answer: A

Explanation:

Average of all 20 matches = {Total runs scored in the first 18 matches + Runs scored in 19th match + Runs scored in 20th matches} ÷ {20}

$= (18 * 56.5 + 101 + 123) ÷ 20$

$= 62.05$

Option A is correct answer.

Question 12

The average of four numbers A, B, C and D is 40. The average of four numbers A, B, E and F is also 40. (A, B are common). Which of the following must be true ?

A $(A + B) \neq (C + D)$

B $(C + D) = (E + F)$

C Either $C = E$ or F ; and F or E

D $C = E$ and $D = F$

E None of these

Answer: B

Explanation:

$A + B + C + D = 40 * 4 = 160$

$A + B + E + F = 40 * 4 = 160$

So, $A + B = 160 - C - D = 160 - E - F$

So, $C + D = E + F$

Option b) is the correct answer.

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Question 13

The average (Arithmetic Mean) and the Median of a set of numbers is the same. Which of the following must be true ?

- A All the numbers are odd in the set
- B All the numbers are even in the set
- C All the numbers are consecutive Integers in the set
- D The data set has even number of observations
- E None of these

Answer: E

Explanation:

Consider the following set: {2, 4, 6}

The mean of the set is 4 and so is the median. From this, we can rule out options a), c) and d).

Consider another set: {1, 3, 5}. Here also, mean = median = 3

This case rules out option b).

So, option e) is the correct answer.

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