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10. The mean of 13, 23, 33, 43, 53 is :

A. 30

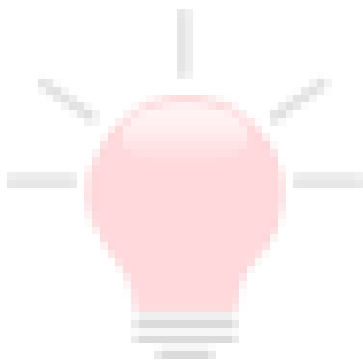
B. 35

C. 45

D. 70

Correct Answers:

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



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Explanations:

1. So, let's make equation from the given information :

$$\text{Average} = \left(\frac{66 + 74 + 55 + 92 + 79}{5} \right) = \frac{366}{5}$$

Average = 73.2% .

Hence, option C is correct.

2. Let Ashish weight X kg.

According to Ashish , $55 < X < 62$

According to Ashish's father, $50 < X < 60$

According to Ashish's sister, $X < 58$

The values satisfying all the above conditions are 56 & 57.

Therefore, Required average = $\left(\frac{56 + 57}{2} \right) = \left(\frac{113}{2} \right)$

So, the Ashish's weight is 56.5 kg.

Hence, option A is correct.

3. Average of 15 numbers = 0.

Sum of 15 numbers = $(0 \times 15) = 0$.

It is quite possible that 14 of these numbers may be positive and if their sum is a, then 15th number is $(-a)$.

Hence, option A is correct.



4. Multiples of 7 between 8 and 55 will be;

14, 21, 28, 35, 42, 49

$$\text{Average} = \left(\frac{\text{First term} + \text{Last term}}{2} \right) = \frac{14 + 49}{2}$$

⇒ 31.5.

Hence, option B is correct.

5. Multiple of 5 are: 5, 10, 15, 20, 25. so,

$$\text{Average} = \frac{\text{First term} + \text{Last term}}{2} = \frac{(5 + 25)}{2} = 15.$$

Hence, option C is correct.

6. **Prime number:** A counting number, except 1, is called a prime number if it has exactly two factors, namely itself and 1. So, the first seven prime numbers are given below:

2, 3, 5, 7, 11, 13, 17. then,

$$\text{Average} = \left(\frac{2 + 3 + 5 + 7 + 11 + 13 + 17}{7} \right) = \frac{58}{7}$$

Hence, option C is correct.

7. Clearly, we have

$$\left(\frac{4+11+7+9+16+13+8+19+18+21+12+x}{12} \right) = 12$$

$$\text{or } 138 + x = 144 \quad \text{or } x = 144 - 138 = 6.$$

Hence, option D is correct.

- 8.

$$\text{We have :} \left(\frac{3 + 8 + 9 + x}{4} \right) = 6, \text{ or } 20 + x = 24, \text{ or } x = 4$$

$$\text{Also,} \left(\frac{17 + 2 + 5 + x + y}{5} \right) = 8, \text{ or } 24 + 4 + y = 40, \text{ or } y = 12$$

Hence, option B is correct.

9. **Natural Numbers:** Counting numbers are called natural numbers. So, first 71 natural numbers are given below:

1, 2, 3, 4, 5,71. then,

$$\text{Sum of first } n \text{ natural numbers} = \frac{n(n+1)}{2}$$

$$\text{So, average of first } n \text{ natural numbers} = \frac{n(n+1)}{2n} = \frac{n+1}{2}$$

$$\text{Required average} = \frac{(71+1)}{2} = \frac{72}{2}$$

= 36.

Hence, option D is correct.

10. To solve this question, we can apply a short trick approach

$$1^3 + 2^3 + 3^3 + \dots + n^3 = \frac{n^2(n+1)^2}{4}$$

By the short trick approach, we get

$$\frac{1^3 + 2^3 + 3^3 + \dots + 5^3}{4} = \frac{5^2(5+1)^2}{4} = \frac{5^2 \times 6^2}{4}$$

$$\Rightarrow \left(\frac{25 \times 36}{4}\right) = (25 \times 9) \Rightarrow 225.$$

$$\text{So, Required average} = \left(\frac{225}{5}\right) = 45.$$

Hence, option C is correct.





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