

# Anna University DEET Previous Question Papers



## Anna University DEET Quantitative Ability

1) What is the average of first five multiples of 12?

1. 36
2. 38
3. 40
4. 42
5. The correct answer is **A**

**Explanation:**

$$\text{Average} = 12 \times (1+2+3+4+5) \times \frac{1}{5} = 12 \times 15 \times \frac{1}{5} = 12 \times 3 = 36$$

2) The average weight of 8 women increases by 2.5 kg when a new woman replaces one of them weighing 65 kg. Find the weight of the new woman.

1. 20
2. 85
3. 67
4. 80

**Answer: B**

**Explanation:**

Total weight increased =  $(8 \times 2.5)$  kg = 20 kg.

So, weight of new woman =  $(65 + 20)$  kg = 85 kg.

3. The captain of a cricket team of 11 members is 26 years old, and the wicket-keeper is three years older than the captain. If the ages of captain and wicketkeeper are excluded, the average age of the remaining players of the team is one year less than the average age of the whole team. What is the average age of the team?

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1. 19
2. 49
3. 17
4. 23

**Answer:** D

**Explanation:**

Let the average age of the whole team by  $x$  years.

$$11x - (26 + 29) = 9(x - 1)$$

$$11x - 55 = 9x - 9$$

$$11x - 9x = -9 + 55$$

$$2x = 46$$

$$x = 23 \text{ Years.}$$

4. The average weight of 10 men is decreased by 2 kg when one of them whose weight is 60 kg is replaced by a new man. What is the weight of the new man?

1. 35 kg
2. 40 kg
3. 45 kg
4. 50 kg

The correct answer is **B**

**Explanation:**

Average decrease in weight per person = 2kg

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There are 10 men so total decrease in weight on replacing a man with a new man =  $10 * 2 = 20$  kg

Weight of the man who is replaced = 60 kg

∴ The weight of the new man would be = Weight of man replaced - total decrease in weight of the group of 10 men.

$$= 60 - 20 = 40 \text{ kg}$$

5. What is the average of first five natural numbers?

1. 5
2. 2
3. 3
4. 4

**Answer:** C

**Explanation:**

$$\text{Average} = \frac{\text{Sum of quantities}}{\text{Number of Quantities}}$$

Sum of first five natural numbers =  $1+2+3+4+5 = 15$

Number of quantities = 5

On putting these values in formula:

$$\text{Average} = 15/5$$

$$= 3$$

6. The average age of a group of 6 boys is 19. If the new average age after a boy joins the group is 21.28, find the age of new boy.

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1. Approx 23
2. Approx 32
3. Approx 35
4. Approx 45

**Answer: C**

**Explanation:**

Use Formula:

Age of new body = New average + Number of boys initially \* increase in average

$$= 21.28 + 6 * 2.28$$

$$= 21.28 + 13.68$$

$$= 34.96$$

7. A group consists of two male, two female and three children. The average age of the male is 67 years, that of the female is 35 years, and that of the children is six years. What is the average age of the group?

1. 30.71
2. 31.71
3. 28.71
4. 35.45

**Answer: B**

**Explanation:**

$$\text{Average} = (67 * 2 + 35 * 2 + 6 * 3) / 7$$

$$= (134 + 70 + 18) / 7$$

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$$= 222 / 7$$

$$= 31.71$$

8. If the average of 20 numbers is zero, how many numbers may be greater than zero?

1. 19
2. 49
3. 17
4. 33

**Answer:** A

**Explanation:**

Average of 20 numbers = 0.

Sum of 20 numbers =  $(0 \times 20) = 0$ .

So, it is quite possible that 19 of these numbers may be positive and if their sum is "X" then 20th number will be (-X).

9. In a class average age of 15 boys is 11. If 5 boys each of age 9 years are added, what would be the new average?

1. 20 years
2. 10 years
3. 10.5 years
4. 23 years

**Answer:** c

**Explanation:**

Sum of ages of 15 boys =  $15 \times 11 = 165$

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Sum of ages of 5 boys =  $5 \times 9 = 45$

Total age of 20 boys =  $165 + 45 = 210$

Average of ages of 20 boys =  $210/20 = 10.5$  years

10. Find the average of first 4 consecutive even numbers.

1. 2
2. 5
3. 1
4. 8

**Answer:** B

**Explanation:**

Average of first  $n$  consecutive even numbers is given by:

Average =  $n+1$

Here,  $n=4$

So, the average =  $4+1=5$