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# **Exercise:** Average - General Questions

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- 11. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is:
  - **(A)** 17 kg
  - **B** 20 kg
  - **©** 26 kg
  - **1** 31 kg

Answer: Option 

Output

Description

Descr

# Explanation:

Let A, B, C represent their respective weights. Then, we have:

$$A + B + C = (45 \times 3) = 135 \dots (i)$$

$$A + B = (40 \times 2) = 80 \dots (ii)$$

$$B + C = (43 \times 2) = 86 \dots (iii)$$

Adding (ii) and (iii), we get:  $A + 2B + C = 166 \dots$  (iv)

Subtracting (i) from (iv), we get: B = 31.

 $\cdot$  B's weight = 31 kg.









- 12. The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. Find the average weights of all the boys in the class.
  - **(A)** 47.55 kg
  - **(B)** 48 kg
  - (c) 48.55 kg
  - (1) 49.25 kg

Answer: Option ©

#### **Explanation:**

Required average = 
$$\left(\frac{50.25 \times 16 + 45.15 \times 8}{16 + 8}\right)$$
  
=  $\left(\frac{804 + 361.20}{24}\right)$   
=  $\frac{1165.20}{24}$   
= 48.55









- 13. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:
  - **(A)** 250
  - **B** 276
  - **©** 280
  - ② 285

Answer: Option (1)

### **Explanation:**

Since the month begins with a Sunday, to there will be five Sundays in the month.

Required average = 
$$\left(\frac{510 \times 5 + 240 \times 25}{30}\right)$$
$$= \frac{8550}{30}$$
$$= 285$$









- 14. If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is:
  - (A) 53.33
  - **(B)** 54.68
  - **(c)** 55
  - (I) None of these

Answer: Option (B)

#### **Explanation:**









- 15. A pupil's marks were wrongly entered as 83 instead of 63. Due to that the average marks for the class got increased by half (1/2). The number of pupils in the class is:
  - **(A)** 10

- **B** 20
- **©** 40
- **①** 73

Answer: Option ©

## **Explanation:**

Let there be x pupils in the class.

Total increase in marks =  $\left(x \times \frac{1}{2}\right) = \frac{x}{2}$ 

$$\frac{x}{2} = (83 - 63) \implies \frac{x}{2} = 20 \implies x = 40.$$













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