

Statistics - Class XI

Past Year JEE Questions

Questions

Question: 01

The average marks of boys in a class is 52 and that of girls is 42. The average marks of boys and girls combined is 50. The percentage of boys in the class is

- A. 80
- B. 60
- C. 40
- D. 20

Solutions

Solution: 01

Explanation

Let x and y are number of boys and girls in a class respectively.

$$\therefore 52x + 42y = 50(x + y)$$

$$\Rightarrow 52x + 42y = 50x + 50y$$

$$\Rightarrow 2x = 8y$$

$$\Rightarrow x = 4y$$

$$\therefore \text{Total no. of students} = x + y = 4y + y = 5y$$

$$\therefore \text{Percentage of boys} = \frac{4y}{5y} \times 100\% = 80\%$$