

Statistics - Class XI

Past Year JEE Questions

Questions

Question: 01

The mean age of 25 teachers in a school is 40 years. A teacher retires at the age of 60 years and a new teacher is appointed in his place. If the mean age of the teachers in this school now is 39 years, then the age (in years) of the newly appointed teacher is _____.

Solutions

Solution: 01

Answer

Correct Answer is **35**

Explanation

$$x_1 + x_2 + \dots + x_{25} = 25 \times 40 = 1000$$

$$\Rightarrow \frac{x_1 + x_2 + \dots + x_{25} - 60 + a}{25} = 39$$

$$\Rightarrow 1000 - 60 + a = 25 \times 39$$

$$\Rightarrow a = -940 + 975$$

$$\Rightarrow a = 35$$