

1. The arithmetic mean of a set of observations is \bar{X} . If each observation is divided by α and then is increased by 10, then the mean of the new series is
- (A) $\frac{\bar{X}}{\alpha}$ (B) $\frac{\bar{X}+10}{\alpha}$
 (C) $\frac{\bar{X}+10\alpha}{\alpha}$ (D) $\alpha\bar{X}+10$
2. The mean monthly salary of 10 members of a group is 1445, one more member whose monthly salary is Rs. 1500 has joined in group. Find the mean monthly salary of 11 members of the group.
3. If σ is the standard deviation of a random variable x , then the standard deviation of the random variable $ax + b$, where $a, b \in R$ is
- (A) $a\sigma + b$ (B) $|a|\sigma$
 (C) $|a|\sigma + b$ (D) $a^2\sigma$
4. The mean of 200 items was 50. Later on it was discovered that the two items were misread 92 and 8 instead of 192 and 88. Find the correct mean.
5. The arithmetic mean of 4 observations was calculated as 22. It was later observed that one of the observations was recorded as 14 instead of 40. Find the correct arithmetic mean.
6. If the coefficient of variation of a distribution is 45% and the mean is 12, then its standard deviation is
- (A) 5.2 (B) 5.3
 (C) 5.4 (D) none of these

Answers:

1. C

3. B

5. 19.5

2. 1450

4. 50.9

6. C