PRACTICE EXERCISE

1. Find the variance and standard deviation for the following data: 57, 64, 43, 67, 49, 59, 44, 47, 61, 59

2. Variance of the data 2, 4, 5, 6, 8, 17 is 23.33. Then variance of 4, 8, 10, 12, 16, 34 will be

    (A) 23.23

    (B) 25.33

    (C) 46.66

    (D) 48.66

3. A set of n values x_1 , x_2 , ..., x_n has standard deviation 6. The standard deviation of n values $x_1 + k$, $x_2 + k$, ..., $x_n + k$ will be

    (A) σ

    (B) $\sigma + k$

    (C) $\sigma - k$

    (D) $k\sigma$

SOLUTION

1. Variance = 66.2, standard deviation 8.13

2. C

3. A