In a study on survival time for ten patients following a new treatment for AIDS. The time in months were given thus: 24, 12, 8, 20, 3, 18, 24, 25,and 27.Determine the mean for the given data. a. 20 b. 17.9 c. 24 d. 6.8

Solution

The time in months was 24 12 8 20 3 18 24 25 27 [Original data set].

The average of the data values in a data set is called mean.

$$\text{Arithmetic mean} \ = \frac{Sum\ of\ data\ values}{Number\ of\ data\ values} \ .$$

The arithmetic mean of the data set is

$$\frac{24 + 12 + 8 + 20 + 3 + 18 + 24 + 25 + 27}{9} \approx 17.9.$$

Answer: b. 17.9.