

Assignment III (CBSE Class 9)

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Exercise 14.4

1. The following number of goals were scored by a team in a series of 10 matches:

2, 3, 4, 5, 0, 1, 3, 3, 4, 3

Find the mean, median and mode of these scores.

Solution: Given data is the number of goals scored by a team in 10 matches:

2, 3, 4, 5, 0, 1, 3, 3, 4, 3

(i) Mean

$$\begin{aligned} \text{Mean} &= \frac{2 + 3 + 4 + 5 + 0 + 1 + 3 + 3 + 4 + 3}{10} \\ &= \frac{28}{10} \\ &= 2.8 \end{aligned}$$

\therefore Mean = 2.8

(ii) Median

For median, we have to arrange all the scores in ascending order

Ascending order \Rightarrow 0, 1, 2, 3, 3, 3, 3, 4, 4, 5

As there are even number of scores, median is the average of 5th and 6th elements

$$\begin{aligned} \text{Median} &= \frac{3 + 3}{2} \\ &= 3 \end{aligned}$$

\therefore Median = 3

(iii) Mode

Mode is the most frequently occurring score of all the matches. Here, 3 is the most frequently occurring score.

\therefore Mode = 3