

Assignment 3

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Question:

The following table gives the points scored by a kabaddi team in a series of match:

(X)	Match No.
Points scored by team	Match No.
17	1
2	2
7	3
27	4
15	5
5	6
14	7
8	8
10	9
24	10
48	11
10	12
8	13
7	14
18	15
28	16

TABLE II

find median of the points scored by team.

Solution:

Firstly we arrange the different scores/points in ascending order.

(X)	Ascending order term
Points scored by team	Ascending order term
2	1st
5	2nd
7	3rd
7	4th
8	5th
8	6th
10	7th
10	8th
14	9th
15	10th
17	11th
18	12th
24	13th
27	14th
28	15th
48	16th

TABLE IV

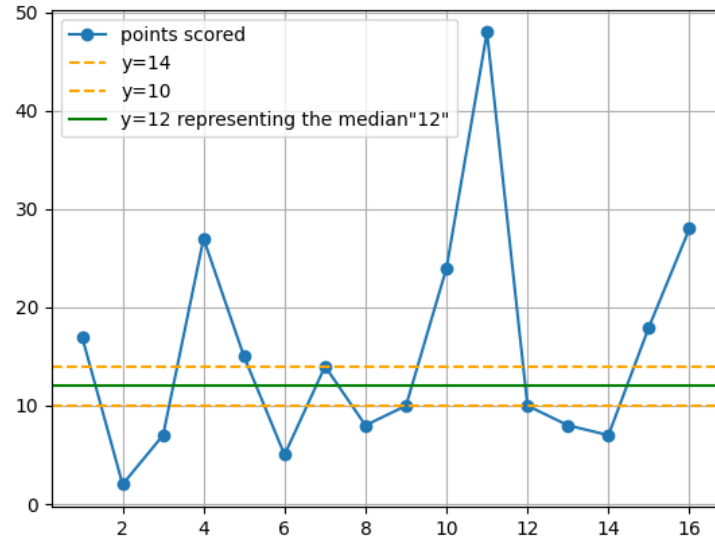


Fig. 1. Y-axis Illustrating different scores scored by a kabaddi team and X-axis shows match no.

Total number of matches=16

There are two middle terms: $(16/2)$ th and $(16/2) + 1$ th terms so median should be mean of 8th(match no.9) and 9th terms(match no.7)

$$\text{median} = (10 + 14)/2 \quad (1)$$

$$\Rightarrow \text{median} = 12 \quad (2)$$