Q Calculating Median from a discrete series.

Score	f
15,000	24
15,500	26
16,800	16
18,500	6
18,000	20
17,800	30

Step 1: Arrange the scores in an ascending order

Step 2: Compute the cumulative frequencies

Step 3: Put values in the formula.

*{Step 2: Start calculating (C.f) cumulative frequency from the lowest score, in this example it is 15,000. its corresponding frequency is 24, Keep adding the subsequent frequency scores starting from 24.

→ 24, then add 24 + 26 = 50, next 50 + 16 = 66, next 66 + 30 = 96, next 96 + 20 = 116, next 116 + 6 = 122}

Scores	f	C.f
15,000	24	24
15,500	26	50
16,000	16	66
17,000	30	96
18,000	20	116
18,500	6	122

$$\text{mdn} = \frac{N+1}{2} = \frac{122+1}{2} = 123/2$$

$$= 61.5$$

As 61.5 falls in the C.f 66 the median value is 16,000.