PARTITION VALUES WORKSHEET

Find Median, Q1, D7,D4, P50,P54

1. 25, 20, 15, 45, 18, 7, 10, 38, 12

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Wages (in  Rs) | 60-70 | 50-60 | 40-50 | 30-40 | 20-30 |
| Number of  workers | 7 | 21 | 11 | 6 | 5 |

1. The table below gives the relative frequency distribution of annual pay roll for 100 small retail establishments in a city. Find Q3, D5,P60.

|  |  |
| --- | --- |
| Annual pay roll  (1000 rupees) | Establishments |
| Less than 10  10 and Less than 20  20 and Less than 30  30 and Less than 40  40 and Less than 50  50 and Less than 60 | 8  12  18  30  20  12 |
|  | 100 |

4. Calculate the median, , D6, P70, P84 from the data given below

|  |  |  |  |
| --- | --- | --- | --- |
| Wages  (in Rs ) | Number of  workers | Wages  (in Rs) | Number of  workers |
| Above 30  Above 40  Above 50  Above 60 | 520  470  399  210 | Above 70  Above 80  Above 90 | 105  45  7 |

5. From the following data, compute the values of upper and

lower quartiles, median, D6, P20.

|  |  |  |  |
| --- | --- | --- | --- |
| Marks | No. of.  Students | Marks | No. of.  Students |
| Below 10  10-20  20-30  30-40 | 5  25  40  70 | 40-50  50-60  60-70  Above 70 | 90  40  20  10 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X | 10 | 15 | 20 | 25 | 30 | 35 | 50 | 60 | 65 |
| f | 3 | 5 | 40 | 35 | 55 | 60 | 20 | 14 | 7 |