1. An incomplete frequency distribution is as follows: Given that median is 46 calculate the missing frequencies.

|  |  |
| --- | --- |
| Variate | Frequency |
| 10-20 | 12 |
| 20-30 | 30 |
| 30-40 | ? |
| 40-50 | 65 |
| 50-60 | ? |
| 60-70 | 25 |
| 70-80 | 18 |
| Total | 229 |

1. An analysis of monthly wages paid to the workers in two firms A and B belonging to the same industry, gave the following result:

|  |  |  |
| --- | --- | --- |
|  | Firm A | Firm B |
| No. wage earners | 986 | 548 |
| Average hourly wages (Rs.) | 52.5 | 47.5 |
| Variance of distribution of wages | 100 | 121 |

i) Identify the firm, that pays out larger amount as hourly wages.

(ii) Identify the firm that is homogeneous.

(iii) Calculate the measures of hourly average wages and the variability in individual wages, of all the workers in the two firms taken together.

1. The following are the production and price statistics of a commodity. Find the correlation coefficient and interpret. Also calculate the two regression equations.

|  |  |
| --- | --- |
| **Production** | **Price (Rs. per minute)** |
| 120 | 13 |
| 150 | 15 |
| 120 | 14 |
| 124 | 13 |
| 126 | 12 |
| 121 | 14 |