



**Q5.** The fast-food restaurants monitor their drive-thru service times electronically to ensure that theirs speed of service is meeting the company’s goals. A sample of 15 drive-thru times was recently taken and is shown below for 2 fast-food restaurants.

**Speed of Service (time in minutes)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fast-Food**  **Company 1:** | 34 | 55 | 36 | 46 | 47 | 60 | 64 | 48 |
| 43 | 35 | 54 | 53 | 25 | 77 | 45 |  |
| **Fast-Food**  **Company 2:** | 24 | 22 | 38 | 37 | 35 | 28 | 44 | 35 |
| 33 | 46 | 51 | 42 | 34 | 32 | 68 |  |

1. Draw stem and leaf graph for each of these companies.
2. List the five-number summary for each of these companies.
3. Form the box-and-plot and compare methods with respect to –level, -dispersion, -shape and -outliers.
4. Develop a histogram for the frequency distributions of these companies.
5. Compute the mean speed of service for each company? Do you think this central tendency measures are suitable to these distributions? Why?





