**4UIQM: Element 4: Statistical tools and data analysis**

**Solutions to activities**

|  |  |
| --- | --- |
| **Activity 1** | **Interpretation:** The highest sales are in July each year and lowest in December. This clearly shows the seasonality of sales. With passing years sales are showing a rising trend. |
| **Activity 2** |  |
| **Activity 3** | **Interpretation:** Chocolate flavour has the maximum sales followed by butterscotch. Together these account for 50% of the total sales. The lowest sales are for raspberry flavour. |
| **Activity 4** |  |
| **Activity 5** |  |
| **Activity 6** | **Interpretation:** The duration of most of Theiry’s mobile calls is between 4-5 minutes. The most frequent duration of her call is 4.5 minutes. The range of duration of her calls is between 1.5 minutes to 9.7 minutes. |
| **Activity 7** | Mean: 24.44  Median: 21.42  Mode: 15.83 |
| **Activity 8** | Standard deviation = 14.33 |