**COURSE NAME:** Descriptive Statistics

**ASSIGNMENT REPORT**

**GROUP MEMBERS:**

1. Joseph MUTANGANA 29061
2. MBONYINKWIYE Burumbuke Frank 28745
3. Ushimirwa ingabire Benitha 28747
4. Kubananayo Ismael 28920
5. Uwase Rubagumya Joseé ID:29181
6. Nyirahabinshuti Marlene 28884

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The reason why we choose Extended group frequency is that Since the octane values are in decimals, making a distinct table would be long and messy. Using an extended grouped frequency distribution helps us organize the data into clear intervals, making it easier to read and analyze

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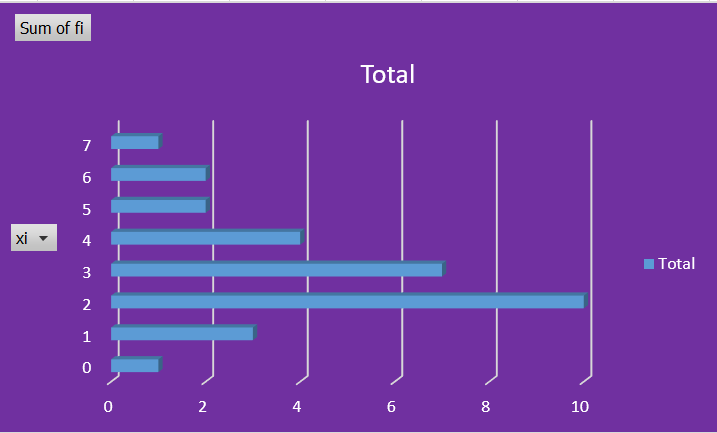
**Q3. By using Frequency Distribution**

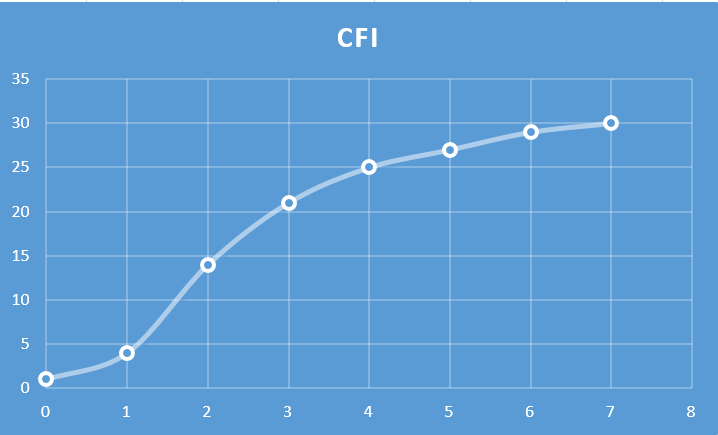
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| **xi** | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 |
| **fi** | 1 | 1 | 4 | 5 | 5 | 9 | 3 | 3 | 2 | 2 |

**ACTIVITY 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **i** | **xi** | **fi** | **xi.fi** |
| 1 | 5 | 4 | 20 |
| 2 | 10 | 6 | 60 |
| 3 | 15 | 8 | 120 |
| 4 | 20 | 7 | 140 |
| 5 | 25 | 3 | 75 |
| 6 | 30 | 2 | 60 |
|  |  |  |  |
|  |  | 30 | 475 |

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| **xi** | **fi** | **cf** |
| 0 | 1 | 1 |
| 1 | 3 | 4 |
| 2 | 10 | 14 |
| 3 | 7 | 21 |
| 4 | 4 | 25 |
| 5 | 2 | 27 |
| 6 | 2 | 29 |
| 7 | 1 | 30 |

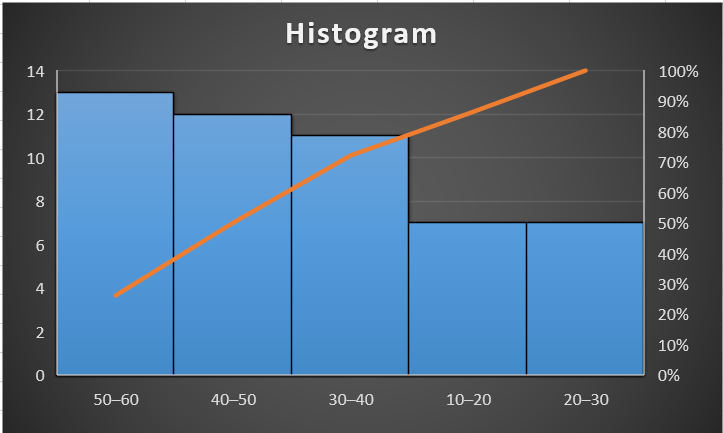




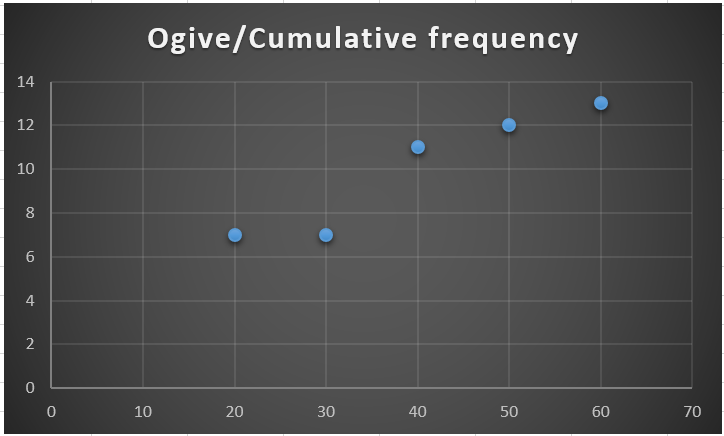
**Q6**

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|  |  |  | 50 |  |

**Histogram**



**Ogives/Cumulative frequency**

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