## Template: Study Material




| Solved word Problem <br> The runs scored by a batsman are given below find its Range: $80,72,75,90,95,10$ $79$ <br> Solution: $\begin{aligned} \text { Range } & =L-S \\ & =95-10 \\ & =85 \end{aligned}$ | $\begin{aligned} & \mathrm{U} \text { = upper boundary of last class }=59.5 \\ & \begin{aligned} & \mathrm{L}=\text { lower boundary of first class }=9.5 \\ & \text { Range }=\mathrm{U}-\mathrm{L} \\ &=59.5-9.5 \\ &=50 \end{aligned} \\ & \begin{array}{r} \text { co-efficient of range }=\frac{U-L}{U+L} \\ \\ =\frac{59.5-9.5}{59.5+9.5} \\ =0.725 \end{array} \end{aligned}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Application of Concept/ Examples in real life Range is the easy measure to calculate how spread out the data set is. It is also used to estimate another measure of spread, the standard deviation. |  |  |  |  |  | Link to YouTube/ OER/ <br> video <br> https://en.m.wikipedia.org |
| Key Take away from this UO: 1) Range <br> 2) Coefficient of Range. |  |  |  |  |  |  |  |

