- Para Datos No Agrupados (DNA)

Desviación media (Dm)

$$D_m = \frac{1}{n}\sum_{i=1}^{n}|x_i - \bar{x}| \quad ; \quad \bar{x} = 58.38$$

$$D_m = \frac{1}{50}[2\cdot|30-58.38| + |31-58.38| + |36-58.38| + |40-58.38| + |41-58.38| + |42-58.38| + |43-58.38| + |44-58.38| + 2\cdot|45-58.38| + |46-58.38| + 2|48-58.38| + 4\cdot|49-58.38| + |51-58.38| + |53-58.38| + |55-58.38| + 3\cdot|56-58.38| + |59-58.38| + 2|60-58.38| + |62-58.38| + |63-58.38| + 2\cdot|64-58.38| + |66-58.38| + 2|67-58.38| + 2|69-58.38| + |70-58.38| + |71-58.38| + 2|72-58.38| + 2|73-58.38| + 2|76-58.38| + 2|77-58.38| + 2|79-58.38| + |80-58.38| + |82-58.38|]$$

$$D_m = 12.3648$$

Desviación mediana (DMD)

$$DMD = \frac{1}{n}\sum_{i=1}^{n}|x_i - \tilde{x}| \quad ; \quad \tilde{x} = 59.5$$

$$DMD = \frac{1}{50}[2\cdot|30-59.5| + |31-59.5| + |36-59.5| + |40-59.5| + |41-59.5| + |42-59.5| + |43-59.5| + |44-59.5| + 2|45-59.5| + |46-59.5| + 2|48-59.5| + 4\cdot|49-59.5| + |51-59.5| + |53-59.5| + |55-59.5| + 3\cdot|56-59.5| + |59-59.5| + 2|60-59.5| + |62-59.5| + |63-59.5| + 2|64-59.5| + |66-59.5| + 2|67-59.5| + 2|69-59.5| + |70-59.5| + |71-59.5| + 2|72-59.5| + 2|73-59.5| + 2|76-59.5| + 2|77-59.5| + 2|79-59.5| + |80-59.5| + |82-59.5|]$$

DMD = 12.34

Para Datos Agrupados (DA)

Desviación media (DM)

$$DM = \frac{1}{n}\sum_{i=1}^{m} |x_i - \bar{x}| f_i \quad ; \bar{x} = 58.9$$

$$DM = \frac{1}{50}[|32.5-58.9|\cdot 4 + |40.5-58.9|\cdot 5 + |48.5-58.9|\cdot 9 + |56.5-58.9|\cdot 8 + |64.5-58.9|\cdot 8 + |72.5-58.9|\cdot 10 + |80.5-58.9|\cdot 6]$$

$DM = 12.416$

Desviación mediana (DMD)

$$DMD = \frac{1}{n}\sum_{i=1}^{m} |x_i - \tilde{x}| f_i \quad ; \tilde{x} = 59.5$$

$$DMD = \frac{1}{50}[|32.5-59.5|\cdot 4 + |40.5-59.5|\cdot 5 + |48.5-59.5|\cdot 9 + |56.5-59.5|\cdot 8 + |64.5-59.5|\cdot 8 + |72.5-59.5|\cdot 10 + |80.5-59.5|\cdot 6]$$

$DMD = 12.44$