

## Tarea #01

1. Imposición de pesas en millones de dólares

| Año  | Millones \$ | $(x - \bar{x})$ | $(x - \bar{x})^2$ |
|------|-------------|-----------------|-------------------|
| 2011 | 72.97       | -7.03           | 7.06              |
| 2012 | 73.90       | -0.10           | 0.01              |
| 2013 | 74.67       | 0.67            | 0.45              |
| 2014 | 74.43       | 0.43            | 0.78              |
| 2015 | 74.05       | 0.05            | 0.00              |
|      | 30.02       | 2.28            | 1.70              |

$$\bar{x} = \frac{30.02}{5} = \underline{\underline{74}}$$

$$D_m = \frac{2.28}{5} = \underline{\underline{0.46}}$$

$$S = \sqrt{\frac{1.70}{5}} = \sqrt{0.34} = \underline{\underline{0.58}}$$

$$R = 74.67 - 72.97 = \underline{\underline{1.70}}$$

## 2. Proyecto de Crecimiento económico de un año

| País        | %     | $x - \bar{x}$ | $(x - \bar{x})^2$ |
|-------------|-------|---------------|-------------------|
| Guatemala   | 2.5   | 0.82          | 0.67              |
| El Salvador | 2.5   | 0.82          | 0.67              |
| Honduras    | 3.1   | 0.22          | 0.05              |
| Nicaragua   | 3     | 0.32          | 0.10              |
| Costa Rica  | 3.4   | 0.08          | 0.01              |
| Panamá      | 5.4   | 2.08          | 4.33              |
|             | 19.90 | 4.34          | 5.83              |

$$\bar{x} = \frac{19.90}{6} = \underline{\underline{3.32}}$$

$$D_m = \frac{4.34}{6} = \underline{\underline{0.72}}$$

$$S = \sqrt{\frac{5.83}{6}} = \sqrt{0.97} = \underline{\underline{0.98}}$$

$$R = 5.4 - 2.5 = \underline{\underline{2.90}}$$

2. Volumen de importancia de carne de pollo en libras de Estados Unidos a Guatemala en los siguientes años.

| Año  | Libras    | $(x - \bar{x})$ | $(x - \bar{x})^2$ |
|------|-----------|-----------------|-------------------|
| 2011 | 162 812   | 64 105          | 4 109 457,025     |
| 2012 | 186 978   | 39 939          | 1 595 123,721     |
| 2013 | 195 335   | 37 582          | 1 408 422,724     |
| 2014 | 242 487   | 15 570          | 242 430,900       |
| 2015 | 277 390   | 50 473          | 2 547 540,890     |
| 2016 | 296 499   | 69 582          | 4 841 678,382     |
|      | 1 367 507 | 271 252         | 14 333 646,936    |

$$\bar{x} = \frac{1367507}{6} = 226976.83$$

$$m = \frac{271252}{6} = 45208.50$$

$$s = \frac{\sqrt{14333646936}}{6} = \sqrt{2388941156}$$

$$\sqrt{48876.80}$$

$$R = 296499 - 162812 = 133687$$