

Tarea. No 1-

1- Importación de Peces en millones de dólares.-

año	Millones de Q	$(x - \bar{x})$	$(x - \bar{x})^2$
2011	12.97	1.03	1.06
2012	13.90	0.10	0.01
2013	14.67	0.67	0.45
2014	14.43	0.43	0.18
2015	14.05	0.05	0.00
	70.02	2.28	2.70

$\bar{x}$

$$\bar{x} = \frac{70.02}{5} = \underline{\underline{14.004}}$$

D_m

$$D_m = \frac{2.28}{5} = D_m = \underline{\underline{0.456}}$$

S

$$S = \sqrt{\frac{2.70}{5}} = S = \sqrt{0.54} = \underline{\underline{0.735}}$$

R

$$R = 14.67 - 12.97 = \underline{\underline{1.70}}$$

2- Volumen de importación 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	64,705	4,109,451,025
2012	186,978	39,939	1,595,237,21
2013	195,335	31,582	997,422,724
2014	242,487	15,570	242,424,900
2015	277,390	50,473	2,547,523,729
2016	296,499	69,582	4,841,654,724
	1,367,507	277,251	7,433,600,82

$$\bar{X} = \frac{1,367,507}{6} = 227,917.83 = \underline{\underline{227,917.83}}$$

$$DM = \frac{277,251}{6} = \underline{\underline{46,208.5}}$$

$$S = \sqrt{\frac{7,433,600.82}{6}} \quad S = \sqrt{1,238,933.47}$$

$$S = \underline{\underline{11,135.23}}$$

$$R = 296,499 - 162,812 = \underline{\underline{133,687}}$$

3- Proyecto de crecimiento económico de un Año (en Porcentajes)

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

$\bar{x}$

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

$$\bar{x} = 3.32 //$$

D_m

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

$$D_m = 0.72 //$$

S

$$S = \sqrt{\frac{5.83}{6}}$$

$$S = \sqrt{0.97}$$

$$S = 0.98 //$$

R

$$R = 5.4 - 2.5 =$$

$$R = 2.90 //$$