

wendy velásquez solo "yfo admón"

Calcule el rango y la desviación media y estándar de los siguientes datos sin agrupar.

1. Importación de peras en millones de dólares.

Año	millones()	$[x - \bar{x}]$	$(x - \bar{x})^2$
2011	12.97	-1.03	1.061
2012	13.9	0.1	0.010
2013	14.67	0.67	0.449
2014	14.43	0.43	0.185
2015	14.05	0.05	0.003
	14	2.28	1.71

$$\bar{x} = \frac{\sum x}{N} = \frac{70.02}{5} = 14$$

$$D.m. = \frac{\sum |x - \bar{x}|}{N}$$

$$D.m. = \frac{2.28}{5} = 0.46$$

$$S = \sqrt{\frac{\sum (x - \bar{x})^2}{N}}$$

$$S = \sqrt{\frac{1.71}{5}}$$

$$S = \sqrt{0.34}$$

$$S = 0.58$$

$$R = Dma - Dma$$

$$R = 14.67 - 12.97 = 1.7$$

$$\bar{x} = 14$$

$$D.m. = 0.46$$

$$S = 0.58$$

$$R = 1.7$$

Wendy Velásquez Soto "4to admon"

Proyección de crecimiento económico
de un año (en porcentajes)

País	%	$ x - \bar{x} $	$(x - \bar{x})^2$
Guatemala	2.5	0.82	0.672
El Salvador	2.5	0.82	0.672
Honduras	3.1	0.22	0.048
Nicaragua	3	0.32	0.102
Costa Rica	3.4	0.08	0.006
Panamá	5.4	2.08	4.326
		4.34	5.83

$$\bar{x} = \frac{\sum x}{N} \quad \bar{x} = \frac{19.9}{6} = 3.32$$

$$D.m. = \frac{\sum |x - \bar{x}|}{N} = \frac{4.34}{6} = 0.72$$

$$S = \sqrt{\frac{\sum (x - \bar{x})^2}{N}}$$

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

$$S =$$

$$R = D.m.a - D.m.e$$

$$R = 5.4 - 2.5 = 2.9$$

$$\bar{x} = 3.32$$

$$D.m. = 0.72$$

$$S = 0.98$$

$$R = 2.9$$



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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	64,104.83	4,109,429,229
2012	186,978	39,938.83	1,595,110,142
2013	195,335	31,581.83	997,411,986.1
2014	242,487	15,570.17	242,430,193.8
2015	277,390	50,473.17	2,547,540,890
2016	296,499	69,582.17	4,841,678,382

1,361,501 271,251 14,333,600,822.9

$$\bar{x} = \frac{\sum x}{N}$$

$$\bar{x} = \frac{1,361,501}{6} = 226,916.83$$

$$D.m. = \frac{\sum |x - \bar{x}|}{N}$$

$$D.m. = \frac{271,251}{6} = 45,208.5$$

$$\bar{x} = 226,916.83$$

$$D.m. = 45,208.5$$

$$S = \sqrt{\frac{\sum (x - \bar{x})^2}{N}} \quad S = \sqrt{\frac{14,333,600,822.9}{6}}$$

$$\sqrt{2,388,933,470} = 48,876.72$$

$$S = 48,876.72$$

$$R = 133.687$$

$$R = Dma - Dme$$

$$296,499 - 162,812 = 133,687$$