



Engineering Statistics

الاحصاء الهندسي

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class	Frequency	y_i	fiy_i	$ y_i - \bar{y} $	$fi y_i - \bar{y} $
51-57	7	54	378	22.47	157.29
58-64	6	61	366	15.47	92.82
65-71	7	68	476	8.47	59.29
72-78	8	75	600	1.47	11.76
79-85	16	82	1312	5.53	88.48
86-92	10	89	890	12.53	125.3
93-99	5	98	490	21.53	107.65
	59		4512		642.59

$$\bar{y} = 76.47458$$

$$M.D = 10.891$$

class	Frequency	yi	fiyi	$yi - \bar{y}$	$(yi - \bar{y})^2$	$fi(yi - \bar{y})^2$
51-57	7	54	378	-22.47	504.9009	3534.306
58-64	6	61	366	-15.47	239.3209	1435.925
65-71	7	68	476	-8.47	71.7409	502.1863
72-78	8	75	600	-1.47	2.1609	17.2872
79-85	16	82	1312	5.53	30.5809	489.2944
86-92	10	89	890	12.53	157.0009	1570.009
93-99	5	98	490	21.53	463.5409	2317.705
	59		4512			9866.713

$$\bar{y} = 76.47458$$

$$S = 13.042$$