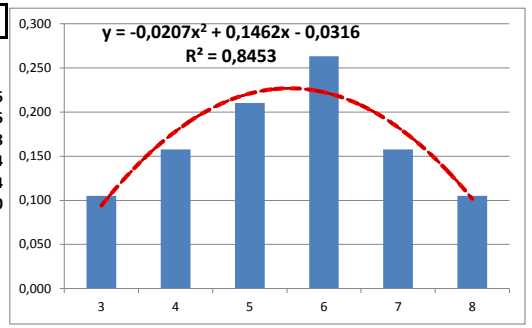
Calcolo delle Frequenze

i	X_i (Modalità)	fa_i	X_i*fa_i	fac_i	fr_i	frc_i	fp_i (%)	fpc_i (%)
1	3	2	6,000	2	0,105	0,105	10,526	10,526
2	4	3	12,000	5	0,158	0,263	15,789	26,316
3	5	4	20,000	9	0,211	0,474	21,053	47,368
4	6	5	30,000	14	0,263	0,737	26,316	73,684
5	7	3	21,000	17	0,158	0,895	15,789	89,474
6	8	2	16,000	19	0,105	1,000	10,526	100,000
Tot 6	33,00	19	105,000		1,000		100,000	
k	$\sum X_i$	$\sum fa_i$	$\sum X_i*fa_i$		$\sum fr_i$		$\sum fp_i$	



Linea di tendenza APPARENTE: Vedi GAUSS

Medie

$$M_s = \frac{\sum X_i}{k} = \frac{33,00}{6} = 5,50$$

$$M_p = \frac{\sum X_i*fa_i}{\sum fa_i} = \frac{105,00}{19} = 5,53$$

Calcolo di Devianza, Varianza, Deviazione Standard

i	X_i (Modalità)	fa_i	X_i*fa_i	X_i-M_p	$(X_i-M_p)*fa_i$	$(X_i-M_p)^2$	$(X_i-M_p)^2*fa_i$
1	3	2	6,000	-2,53	-5,05	6,38	12,76
2	4	3	12,000	-1,53	-4,58	2,33	6,99
3	5	4	20,000	-0,53	-2,11	0,28	1,11
4	6	5	30,000	0,47	2,37	0,22	1,12
5	7	3	21,000	1,47	4,42	2,17	6,52
6	8	2	16,000	2,47	4,95	6,12	12,24
Totali	33	19	105,000	-0,16	0,00	17,50	40,74
	$\sum X_i$	$\sum fa_i$	$\sum X_i*fa_i$	$\sum(X_i-M_p)$	$\sum(X_i-M_p)*fa_i$	$\sum(X_i-M_p)^2$	$\sum(X_i-M_p)^2*fa_i$ DEVIANZA

$$M_p = \frac{\sum X_i*fa_i}{\sum fa_i} = \frac{105,00}{19} = 5,53 = \text{MEDIA PONDERATA}$$

$$D = \sum(X_i-M_p)^2*fa_i = \ldots = 40,74 = \text{DEVIANZA}$$

$$V = \sigma^2 = \frac{\sum(X_i-M_p)^2*fa_i}{\sum fa_i} = \frac{40,74}{19} = 2,14 = \text{VARIANZA}$$

$$\sigma = \sqrt{\frac{\sum(X_i-M_p)^2*fa_i}{\sum fa_i}} = \sqrt{\frac{40,74}{19}} = 1,46 = \text{DEVIAZIONE STANDARD}$$

$$M_p-\sigma = 5,53 - 1,46 = 4,06 \geq 4 = \text{VALORE MIN NON STANDARD}$$

$$M_p+\sigma = 5,53 + 1,46 = 6,99 \leq 7 = \text{VALORE MAX NON STANDARD}$$