

MARIANO ANTONIO ESPINOSA PENALOS

Actividad de plataforma.

R. P. P
10 03 24

| X_i | F_i | F_i | F_r | % | $X_i - F_i$ | $\sum X^2$ |
|-------|-------|-------|-------|------|-------------|--------------|
| 5 | 3 | 3 | 0.05 | 0.5% | 15 | 75 |
| 6 | 4 | 7 | 0.13 | 13% | 24 | 144 |
| 8 | 4 | 11 | 0.20 | 20% | 32 | 256 |
| 12 | 6 | 17 | 0.32 | 32% | 72 | 864 |
| 13 | 2 | 19 | 0.35 | 35% | 26 | 338 |
| 15 | 4 | 23 | 0.43 | 43% | 60 | 900 |
| 16 | 3 | 26 | 0.49 | 49% | 48 | 768 |
| 20 | 7 | 33 | 0.62 | 62% | 140 | 2800 |
| 25 | 8 | 41 | 0.77 | 77% | 200 | 5000 |
| 32 | 2 | 43 | 0.81 | 81% | 84 | 2048 |
| 35 | 3 | 46 | 0.86 | 86% | 105 | 3675 |
| 40 | 2 | 48 | 0.90 | 90% | 80 | 3200 |
| 45 | 3 | 51 | 0.96 | 96% | 135 | 6075 |
| 75 | 2 | 53 | 1 | 1% | 150 | 11250 |
| | | | | | <u>1201</u> | <u>37393</u> |

$$\bar{x} = 1201 / 53 = 22.66$$

$$me = 20$$

$$mo = 25$$

$$Rango = 5 - 75 = 70$$

$$30\% = P_{30} = \frac{(30)(53)}{100} = 15.9 = 15\# = 8$$

$$55\% = P_{55} = \frac{55(53)}{100}$$

$$= \frac{2915}{100} = 29.15 = 29\# = 20$$

$$75\% = P_{75} = \frac{75(53)}{100} = 39.75 = 39\# = 20$$

$$s^2 = \frac{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}{n-1}$$

$$s^2 = \frac{37393 - \frac{(1201)^2}{53}}{52}$$

$$s^2 = \frac{37393 - 27215.113}{52}$$

$$s^2 = \frac{10177.887}{52}$$

$$s^2 = 195.72$$

$$s^2 = (37393 - (1442401))$$

Varianza

$$s = 13.98 \text{ (Desviacion)}$$

53
52