

تمام بخطوة / 2
دورة المحاسبة 2025
السؤال الأول: احسب متوسط و Median

(1)

٢٠٢٥

متوسط حضر حساد (R) / ١٤٩

~~٢٠٢٥~~

دوقة المحاسبة

متوسط حضر حساد (R) : 6 درجات

٨٦ (٦) ٨٥ (٥) ٨٤ (٤) ٨٣ (٣) ٨٢ (٢) ٨١ (١)

(٥)

النطاق	F _i
50 - 55	3
55 - 60	3
60 - 65	2
65 - 70	4
70 - 75	5
75 - 80	3
Σ	20

68 = متوسط (٥)

68 = اسلوب

$$R = 76,58 - 50 = 26,58 \quad (٥)$$

$$C = \frac{R}{1 + 3,32 \log(n)} = \frac{26,58}{5,32} \approx 5 \quad (٥)$$

x _i	F _i	X _i	F _i X _i	X _i - X̄	F _i X _i - X̄
15 - 25	11	20	220	18	198
25 - 35	11	30	330	8	88
35 - 45	12	40	480	2	24
45 - 55	9	50	450	12	108
55 - 65	7	60	420	22	154
Σ	50	1900			572

$\bar{x} = \frac{\sum F_i x_i}{\sum F_i}$ (١)

$\bar{x} = \frac{1900}{50} = 38$

mod = L₀ + $\left[\frac{\Delta_1}{\Delta_1 + \Delta_2} \right] * C \quad (٥)$

$\Delta_1 = 12 - 11 = 1$

$\Delta_2 = 12 - 9 = 3$

mod = 35 + $\left[\frac{1}{1+3} \right] * 10 = 37,5$

معدل = (٢)

$\bar{x} > \text{med} > \text{mod}$ (٢) متوسط >Median > متوسط حضر حساد

R = X_{max} - X_{min} = 65 - 15 = 50 (٥)

R % = $\frac{R}{\bar{x}} * 100 = \frac{50}{38} * 100 = 131,5\%$ (١) اسلوب (١)

اسلوب (١)

١٣١,٥%

P_m = $\frac{\sum F_i |x_i - \bar{x}|}{\sum F_i} = \frac{572}{50} = 11,44 \quad (٥)$

١١,٤٤ = (٤)

١٨% = (٥)

٣٤% = (٦)

١٠٠% = (٧)

(2)

$$n = 400$$

$$S = 5$$

$$\bar{x} = 200 \quad [22]$$

$$X = 200 : 9.1\% \text{ (أصل)}.$$

$$Z = \frac{\bar{x}_i - \bar{x}}{S} = \frac{205 - 200}{5} = \frac{5}{5} = 1 \approx ③$$

$$Z = \frac{190 - 200}{5} = \frac{-10}{5} = -2$$

$$\text{نسبة} = 34,135 + 47,72 = 81,86\%$$

$$\text{معادل} = \frac{\text{نسبة} \times \text{نسبة}}{100} = \frac{81,86 \times 400}{100} \approx 327 \text{ معادل}$$

$$Z = \frac{190 - 200}{5} = -2 = 50 - 47,72 = 2,28\% \text{ (أصل)} \quad (2)$$

$$Z = \frac{215 - 200}{5} = \frac{15}{5} = 3 \quad 49,865 - 34,135 = \quad (5) \quad (3)$$

$$\bar{x} = \frac{\sum x_i}{n} = 12$$

$$\bar{x} = \frac{72}{6} = 12$$

$$\bar{y} = \frac{\sum y_i}{n} = 30 : \text{أصل} \quad (5)$$

$$\bar{y} = \frac{300}{6} = 50 \quad \boxed{12 > 20}$$

$$b = \frac{\sum (x_i y_i) - \bar{x} \sum y_i}{\sum x_i^2 - \bar{x} \sum x_i} = \frac{3930 - 3600}{1084 - 864} = 1,5$$

$$y = a + b(x)$$

$$\bar{y} = a + b(\bar{x})$$

$$50 = a + 1,5(12) \Rightarrow a = 32$$

$$\boxed{y = 32 + 1,5x}$$

$$y = 32 + 1,5(40) = 92$$

$$y = 32 + 1,5(45) = 99,5$$

1. 31. März
8. Mai

ab 1. April