

~~Aufgabe~~ 14 Grd. so wählen beide in reiner oder gestrichelt
 dane: 8, 3, 4, 6, 7, 3, 6, 8, 4, 4, 8, 2, 7, 5. Wo: $H_0: \mu = 5$

→ 2 3 3 4 4 4 5 6 6 7 8 8 8

$n = 14 \rightarrow \text{par}$

$$\bar{x} = \frac{1}{n} \left(x_1^{(1)} + x_1^{(2)} \right) = \frac{1}{14} (x_1 + x_2) = \frac{8}{14} (5+6) = 5.5$$

- $H_{01} = 4$
- $H_{02} = 6$
- $H_{03} = 8$

U down adrolyc pe vreato hystere kurov prhsto y uhtp lood to poortuete. Dolyes to marek:

87	102	130	160	180	195	132	145	211	105
145	153	152	138	87	99	93	119	129	145

- a) adrethh modus: medijan
- b) adrethh Anshchah modus: "narech dispersy"

mod = 145, populyatsiya 3x

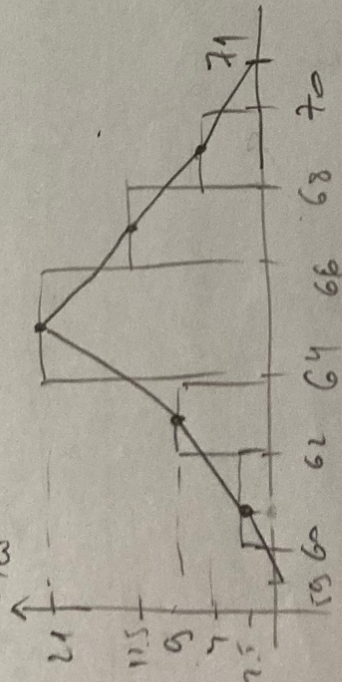
$n = 20$ person \Rightarrow $MO = \frac{1}{2} (x_{10} + x_{11}) = \frac{1}{2} (132 + 138) = 135$

b) $AS = \bar{x}_{20} = \frac{1}{20} (87 + 87 + \dots + 211) = 135.4$

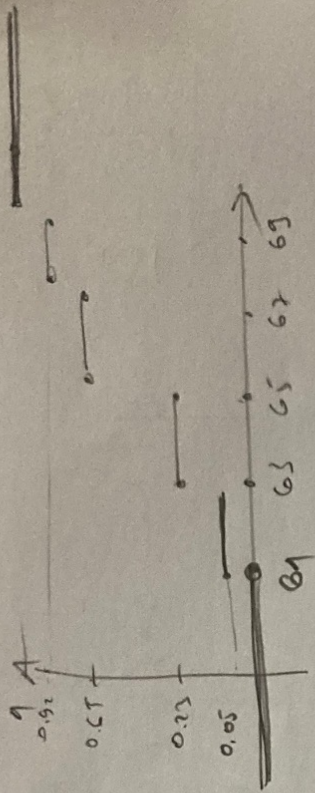
$s_{20}^2 = \frac{1}{20} \sum x_i^2 - \left(\frac{\sum x_i}{20}\right)^2 = 1143.14$

$$f_{\Delta h}^*(x) = \begin{cases} 0 & x < 61 \\ 0.05 & 61 < x \leq 63 \\ 0.23 & 63 < x \leq 65 \\ 0.65 & 65 < x \leq 67 \\ 0.92 & 67 < x \leq 69 \\ 1 & x > 69 \end{cases}$$

histogram + poligon frekwencyj



$$M_0 = L_{M_0} + \frac{f_{M_0} - f_{M_0-1}}{(f_{M_0} - f_{M_0-1}) + (f_{M_0} - f_{M_0+1})}$$



grafik example for 10110101010

$$M_e = L_{M_e} + \frac{\frac{N}{2} - \sum_{i=1}^{k-1} f_i}{f_{M_e}} \cdot \Delta = 64 + \frac{50 - 23}{42} \cdot 2 = 65.2914$$

$$M_2 = L_{M_2} + \frac{f_{M_2} - 18}{(f_{M_2} - 12) + (f_{M_2} - 27)} \cdot 2 = 64 + \frac{24}{24 + 15} \cdot 2 = 65.2314$$

Ukuran 40 ukuran jekap

ukuran	jumlah	variasi	cm	jumlah
150	125	147	132	135
136	164	138	135	142
143	144	145	140	148
149	138	127	126	157
158	161	163	153	163

a) Untuk mencari frekuensi se 6 kelas bisa saja.

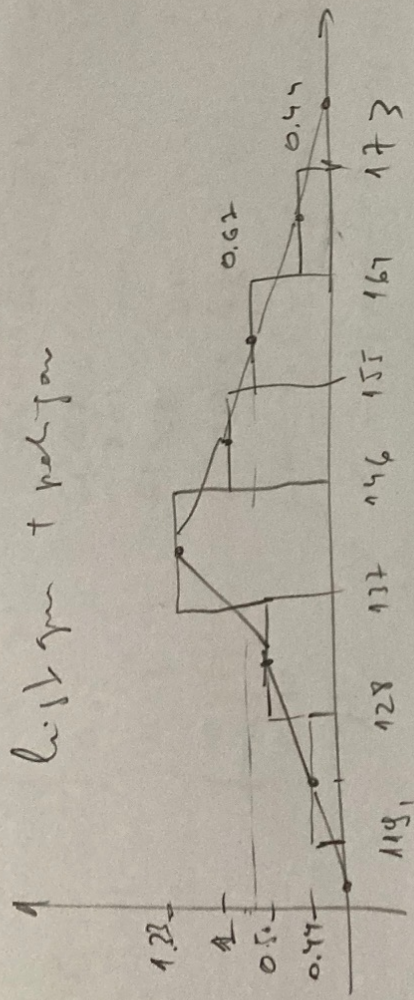
b) mencari distribusi, persentase, empiris dan rumus.

c) M_0, M_1

d) \bar{x}_0, \bar{x}_1^2

T_i	f_i	x_i	$f_i x_i$	F_i	f_i^2
(119, 128)	4	123.5	494	0.1	16
(120, 127)	5	131.5	657.5	0.225	25
(137, 146)	12	141.5	1698	0.525	144
(146, 155)	9	150.5	1354.5	0.75	81
(155, 164)	6	159.5	957	0.9	36
(164, 173)	4	168.5	674	1.00	16

with you + polygon



0	1
0.4	0.1
0.225	0.525
0.275	0.225
0.9	0.075
1	0

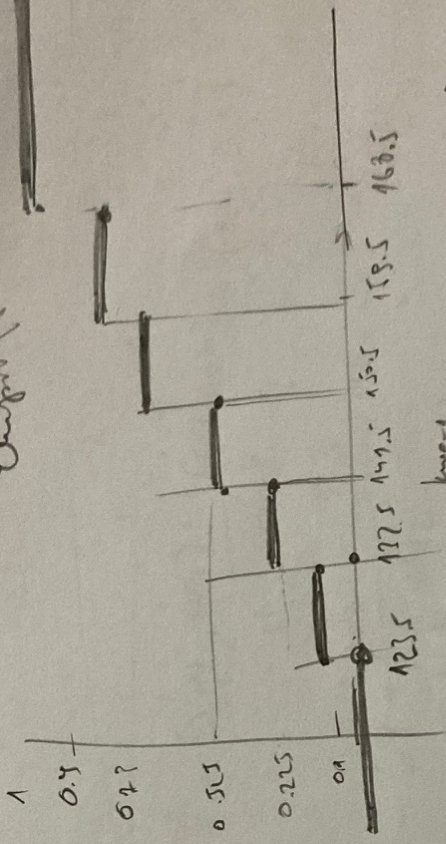
$x \leq 123.5$
 $123.5 < x \leq 132.5$
 $132.5 < x < 141.5$
 $141.5 < x < 150.5$
 $150.5 < x < 159.5$
 $159.5 < x < 168.5$
 $168.5 < x < \infty$

$M_0 = 135$
 $M_1 = 142$
 $M_2 = 144$
 $M_3 = 144.5$

$$\bar{x}_{mo} = \frac{5840}{40} = 146$$

$$s_{mo}^2 = \frac{85910}{40} - 146^2 = 162$$

Langmuir für reip-fals



$$M_e = L_{ue} + \frac{\sum_{i=1}^{k-1} f_i \cdot \Delta}{f_{ue}}$$

$$= 137 + \frac{20 \cdot 9}{12} = 145.25$$

$$M_0 = L_{u0} + \frac{f_{i0} - f_{i-1}}{(f_{i0} - f_{i-1}) + (f_{i0} - f_{i+1})} \cdot \Delta$$

$$= 137 + \frac{9}{9 + 3} \cdot 9 = 143.3$$