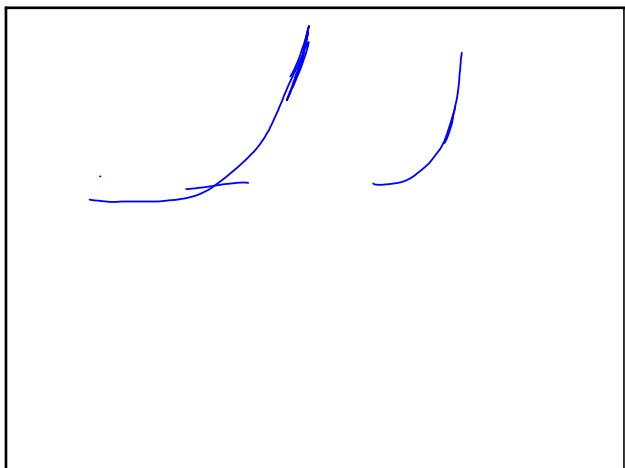




kl.	wl.
1	0
2	1
3	5
4	8
5	2
6	1
$\Sigma = 17$	

$$\bar{a}_n = \frac{a_1 + a_2 + \dots + a_m}{m} = \frac{1+5+7+5+5+5}{17}$$

$$\bar{a}_n = \frac{1+2+1+3+5+4+7+5+2+6+1}{1+5+7+2+1}$$

$$\bar{a}_n = \frac{u_1 \cdot l_1 + u_2 \cdot l_2 + u_3 \cdot l_3 + \dots + u_m \cdot l_m}{l_1 + l_2 + \dots + l_m}$$

$$\bar{a} = \frac{\sum_{i=1}^n u_i \cdot l_i}{\sum_{i=1}^n u_i}$$

$$\sum_{i=1}^n u_i \cdot l_i = u_1 \cdot l_1 + u_2 \cdot l_2 + \dots + u_m \cdot l_m$$

$$P_i = \frac{1}{n} = \frac{1}{17} = \frac{1}{17} \approx 0.0588$$

$$\prod_{i=1}^n i = 1 \cdot 2 \cdot 3 \cdot 4 \cdot \dots \cdot n = n!$$

$$\sum_{i=0}^3 \binom{3}{i} a^3 b^i = \binom{3}{0} a^3 b^0 + \binom{3}{1} a^2 b^1 + \binom{3}{2} a^1 b^2 + \binom{3}{3} a^0 b^3$$

$$= 1a^3 + 3a^2b + 3ab^2 + 1b^3 = (a+b)^3$$

a, b, c
 $\bar{a}, \bar{b}, \bar{c}$

$b = \sqrt{ac}$ - śr. geomet.

$a_1, a_2, \dots, a_n$

$\bar{a}_g = \sqrt[n]{a_1 \cdot a_2 \cdot \dots \cdot a_n}$

$\bar{a}_n \geq \bar{a}_g$

$1, 4 \quad \bar{a}_n = 2,5$
 $\Rightarrow \bar{a}_g = \sqrt{1 \cdot 4} = 2$

a) zestawu liczb:
3 1 1 2 3 5 1 2 3 3 5 5 4 2 1 3 2 2 3 1 4 5

b) tabeli liczebności:

wart.	licz.
1	5
2	5
3	6
4	2
5	4
$\Sigma = 22$	

n - ilość
 $n-1$ - par
 $n-1$ - niepar

$\eta_e = \frac{a_{\frac{n}{2}} + a_{\frac{n}{2}+1}}{2}$

$\eta_e = a_{\frac{n+1}{2}}$

