30.10.2027 Exercise Sheet 1 Andrej Prescher Exercise 1 Data: separ length [cn]: [5.1, 4.9, 4.7, 4.6, 5.0, 5.4, 4.6] = ~ witch [em]: [3.5, 3.0, 3.2, 3.1, 3.6, 3.9, 3.4] = x length [cm]: [1.4, 1.4, 1.3, 1.5, 1.4, 1.7, 1.4] = 7 width Can J: [0.2, 0.2, 0.2, 0.2, 0.2, 0.4, 0.3] = 2 a) Median = 4.6 cm Median = 3.1 cm Mediany = 1.5 cm Melian = 0.2 cm Anthoretic Mean: x= 1 5 xi W = 1 (51+4.9+4.7+4.6+50+5.4+4.6)=4189cm == = (3.5+3.0+3.2+3.1+3.6+3.9+3.4)= 3.38cm y = \frac{1}{2} \left(1.4 + 1.4 + 1.3 + 1.5 + 1.6 + 1.7 + 1.6 \right) = 1.44 cm == 1 (0 2+0.2+0.2+0.2+0.2+0.6+0.3) = 0,24 cm Variance: V(x)= x2 - (x)2 V(W) = (1 (5.12+4.92+4.72+4.62+5.02+5.42+4.62)-4.89) = 0.074cm2 $V(x) = \left(\frac{1}{7} \left(3.5^2 + 3.0^2 + 3.2^2 + 3.1^2 + 3.6^2 + 3.9^2 + 3.4^2\right) - 3.38\right) c_n = 0.084 c_n$ V(y) = (1 (1.42+1.42+1.32, 1.52+1.42+1.72+1.42) - 1,44)cm=0,014cm2 $V(z) = \left(\frac{1}{2}\left(0.2^2+0.2^2+0.2^2+0.2^2+0.4^2+0.3^2\right)-0.24\right)cm = 0.005cm^2$

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