

# PRIMER

PODANO IMAMO TELESNO VIŠINO (v cm) ZA

16 LJUDI, KI SJH LOČIMO NA BELOPOLTE, TEMNOLTE  
(B) (T)  
IN OSTALE (O).

- (170, B) (180, B) (165, O) (180, T) (175, T)
- (170, O) (170, O) (175, O) (185, B) (175, B)
- (190, T) (185, T) (180, B) (170, B) (175, B)
- (175, T)

$$n = 16$$

$$n_1 = \text{ŠTEVILO BELO POLTIH} = 7$$

$$n_2 = \text{ŠTEVILO TEMNO POLTIH} = 5$$

$$n_3 = \text{ŠTEVILO OSTALIH} = 4$$

$$\bar{r}_1 = \frac{170 + 180 + 185 + 175 + 180 + 170 + 175}{7} = \frac{1235}{7} (\doteq 176.43)$$

$$\bar{r}_2 = \frac{180 + 175 + 190 + 185 + 175}{5} = 181$$

$$\bar{r}_3 = \frac{165 + 170 + 170 + 175}{4} = 170$$

$$\bar{r} = \frac{n_1}{n} \bar{r}_1 + \frac{n_2}{n} \bar{r}_2 + \frac{n_3}{n} \bar{r}_3 = \frac{7}{16} \cdot \frac{1235}{7} + \frac{5}{16} \cdot 181 + \frac{4}{16} \cdot 170 = 176.25$$

$$z_B^2 = \frac{n_1}{n} (\bar{r}_1 - \bar{r})^2 + \frac{n_2}{n} (\bar{r}_2 - \bar{r})^2 + \frac{n_3}{n} (\bar{r}_3 - \bar{r})^2 =$$

$$= \frac{7}{16} \left( \frac{1235}{7} - 176.25 \right)^2 + \frac{5}{16} (181 - 176.25)^2 + \frac{4}{16} (170 - 176.25)^2 = \frac{1885}{112}$$

(≐ 16.8304)

$$z^2 = \frac{1 \cdot 165^2 + 4 \cdot 170^2 + 5 \cdot 175^2 + 3 \cdot 180^2 + 2 \cdot 185^2 + 1 \cdot 190^2}{16} - 176.25^2 = 42.1875$$

$$\eta^2 = \frac{z_B^2}{z^2} = \frac{\frac{1885}{112}}{42.1875} \doteq 0.398942 \doteq \underline{\underline{0.40}}$$

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GLEDE NA NAŠO TABELO  
GRE ZA ZMERNO POVEZANOST  
MED VIŠINO IN "BARVO KOŽE".