

V_0	V_1	$V_1 - V_0$	$i = \frac{V_1}{V_0} (\%)$
48,0	50,0	2,0	104,2
30,0	33,3	3,3	111,0
45,0	40,0	-5	88,9

$$D = -5$$

$$D' = 40 - 37,2 = 2,8$$

$$D'' = 37,2 - 45 = -7,8$$

The change of the total per capita income (-5) depends on the change of the composition of population (-7,8) and the change of the group per capita income (2,8).

❖ Practice problem 2

Data of a holiday resort are the following:

Guests from	2003		2004	
	Number of nights (Thousand)	Number of guests (Thousand persons)	Number of nights (Thousand)	Number of guests (Thousand persons)
Hungary	568	165	881	239
Abroad	3174	463	3034	448
Sum	3742	628	3915	687

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- a) Characterize the change of the average time of residence.

Solution

- a) Intensity ratio

$$\text{Per capita night (V)} = \frac{\text{number of night (A)}}{\text{number of guests (B)}}$$

The mean of the ratio

Aggregate formula

$$\bar{V}_0 = \frac{\sum A_0}{\sum B_0} = \frac{3742}{628} = 5,6$$

$$\bar{V}_1 = \frac{\sum A_1}{\sum B_1} = \frac{3915}{687} = 5,7$$

Guests from	2003	2004
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