

Week 11

PART 1:

❖ Practice problem 1

Data of a 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. → *intensity ratio*

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

$$\bar{V}_0 = \frac{\sum A_0}{\sum B_0} =$$

$$\bar{V}_1 = \frac{\sum A_1}{\sum B_1} =$$

Guests from	2003			2004		
	Number of nights (Thousand) A_0	Number of guests (Thousand persons) B_0	Per capita night	Number of nights (Thousand) A_1	Number of guests (Thousand persons) B_1	Per capita night
Hungary	568	165		881	239	
abroad	3174	463		3034	448	
Sum	3742	628		3915	687	