Exercise 1	**Refractive index for solids**		*Theory:*
Team:	Name:		*Experiment:*
Date:	Weeks day and hour:	Major, group:	*Remarks*

🏠 *The formula for the refractive index depending on the real and apparent thicknesses:*

....

🏠 *This formula for the apparent distance between the top d_1 and bottom d_2 side of the plate takes the form:*

....

🏠 *The uncertainty of the refractive index is given by:*

....

Table 2. Measured values of real and apparent thickness.

No.	Actual thickness D	d_1 (top)	d_2 (bottom)

No.	Actual thickness D	d_1 (top)	d_2 (bottom)

The average value of the actual thickness of the first plate........... ± .... [.....]
The average value of the distance d_1 (top side) of the first plate: .... ± .... [.....]
The average value of the distance d_2 (bottom side) of the first plate: .... ± .... [.....]
The refractive index of the first plate: .... ± .... [.....]

The average value of the actual thickness of the second plate........... ± .... [.....]
The average value of the distance d_1 (top side) of the second plate: .... ± .... [.....]
The average value of the distance d_2 (bottom side) of the second plate: .... ± .... [.....]
The refractive index of the second plate: .... ± .... [.....]

The average value of the actual thickness of the third plate........... ± .... [.....]
The average value of the distance d_1 (top side) of the third plate: .... ± .... [.....]
The average value of the distance d_2 (bottom side) of the third plate: .... ± .... [.....]
The refractive index of the third plate: .... ± .... [.....]

First plate is made of …………………………………………………….
Second plate is made of …………………………………………………..
Third plate is made of …………………………………………………….