Exercise 12	**Viscosity coefficient**		*Theory:*
Team:	Name:		*Experiment:*
Date:	Weeks day and hour:	Major, group:	*Remarks*

🏠
🏠 *Stokes equation ....*

Formula for a Reynolds number:..

🏠 *Equation for one droplet volume: ....*

🏠 *Single droplet radius equation.: ....*

🏠 *The formula for the uncertainty of the viscosity coefficient from the propagation of*

uncertaint principle :...

...

The formula for the uncertainty of the Reynolds number from the propagation of uncertaint

🏠 *principle:...*

...

First measurement		Second measurement	
Droplets number		Droplets number	
No	Droplet fall time [ ]	No	Droplet fall time [ ]
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
t = ... ± .... [ ]		t = ... ± .... [ ]	

First measurement

The distance between the marks on the cylinder: L = ... ± .... [   ]

The average droplet radius: r = ... ± .... [   ]

Coefficient of viscosity: η = ... ± .... [   ]

Reynolds number: Re = ... ± .... [   ]

Second measurement

The distance between the marks on the cylinder: L = ... ± .... [   ]

The average droplet radius: r = ... ± .... [   ]

Coefficient of viscosity: η = ... ± .... [   ]

Reynolds number: Re = ... ± .... [   ]

Measurement comparison and conclusions: