DETERMINATION OF SURFACE TENSION

					Name:			
					Group:			
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1.	Goal of the e	experiment:						
	T C							
		OMETER METHO						
	Results of mea	asurements of nu	mber of dro	ps flowing ou	ut from stalagmometer o	capillary:		
			Wa	ater	examined liquid			
			ı	n_0	n			
		1				7		
		2						
		3						
		4				_		
		5				4		
		6 7				_		
		8				-		
		9				+		
		10				7		
		mean value				7		
	temperature of liquids:							
	density of water:			density	density of the examined liquid:			
	$d_{\scriptscriptstyle 0}\pm\Delta d_{\scriptscriptstyle 0}=$			$d\pm\Delta d=$	$d \pm \Delta d = \dots$			
	mean number							
	$\overline{n}_0 = \dots$			$\overline{n} = \dots$	$\overline{n} = \dots$			
	U	·_ ···································						
	standard devis	ation of the mean	· ·					
	standard deviation of the mean:							
				$S_{\bar{n}} = = \dots$				
	maximum error of the mean value:							
$\Delta \overline{n}_0 = \dots \Delta \overline{n} = \dots \Delta \overline{n} = \dots$								
		relative surfa	ce tension:	$\frac{\sigma}{\sigma_0} \pm \Delta \left(\frac{\sigma}{\sigma_0} \right) =$	=			

B. THE CAPILLARY METHOD

	density of liquid d±Δd	capillary radius $r \pm \Delta r$	height of the column of liquid $h\pm\Delta h$	surface tension σ	mean value σ
water					
examined liquid:					

The Estimation of error o	of measurement of surface tension for the capillary of the greatest diameter:
a) for water:	$\Delta \sigma_0 = \dots$
	$\sigma_0 \pm \Delta \sigma_0 = \dots$
b) for examined liquid:	$\Delta\sigma=$
	$\sigma \pm \Delta \sigma = \dots$
relat	tive surface tension: $\frac{\sigma}{\sigma_0} \pm \Delta \left(\frac{\sigma}{\sigma_0} \right) = \dots$
Conclusions:	