Name	Period	

Lab 1 – Length Measurement Simulations

40 Points

Introduction

In this lab we will be practicing the measurements of various objects, from lines to boxes to practice both measurements and calculations with measurements.

Prelab Questions

Define accuracy	Define precision

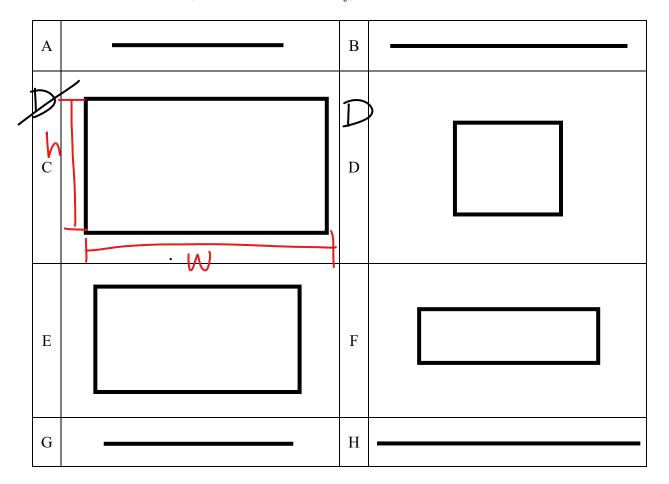
Lab Procedures

- 1. Measure each objects length using the ruler provided using the cm markings on the ruler.
- 2. Round each measurement to 0.1cm, round up or down based on the estimated digit on the ruler (±0.01cm)
- 3. Complete the calculations below the measured values on the ruler.



Lab Measurements

For each box measurement, measure on the outside of the dark black lines.



Measurement Data

Write your measurement data here on the data table from your measurements above.

	Measuren	nent Qu	antity + Unit		Measurement Quantity + Unit			
A Width			CW	B Width	CW			
C Height	cm	C Width	CW	D Height	CW	D Width	CW	
E Height	CM	E Width	CW	F Height	CW	F Width	CW	
G Width			CW	H Width			CW	

Measurement Calculations

Write your measurement data here on the data table from your measurements above.

write your measurement data here on the data table from your measurements above.										
Measurement		Measurement		Answer	Measurement		Measurement		Answer	
A		В		A+B	E_{Height}		Ewidth		E _{area}	
12.9 <u>om</u>	+	15.7 <u>cm</u>	=	28.1cm	> Same Units	X		=		
C_{Height}		$C_{ m width}$		Carea	$F_{ m Height}$		F _{width}		F _{area}	
4.3 <u>cm</u>	X	9.2 <u>cm</u>	II	39.56cm	2 (1)	\ X	0101+1/	- (2M ²	
D_{Height}		$\mathrm{D}_{\mathrm{width}}$		D _{area}	Earea		G		Volume E	
	x		II		CM	X	CW	=	CM	>
C _{area}		Darea		Total Area	Farea		Н		Volume F	2+1
CM	+	CW	=	CM	2	X	<i>7</i> 7 U	N! = 1		= = ~ ~ SOW
G		Н		G+H	Volume E		Volume F		Total Volume	
	+		II		CM3C	+	> CM3	=	CW.	3