The Metric System

a	.	T:	ne	- 1	M	000	1111	m	en	ta
a	,	L		# T	AT.	502	щc	444	ш	12

Obtain a metric ruler. Notice that it is divided into about 15 centimeters (cm). It is a 6 inch ruler and there are 2.54 cm in each inch. Each centimeter is divided into 10 millimeters (mm). The rule for reading any instrument is to read it to the nearest tenth of the smallest division. In this case that is a tenth of a millimeter. This is an estimated number called the Least Significant Digit. When you measure something with this ruler, the number should look something like 2.35 cm which can also be written as 23.5 mm or 0.0235 m. They all have 3 significant measured digits or 3 sig figs. When using a ruler, be careful that you line up the zero on the ruler with the start of the line. The zero is not always at the end of the ruler but is usually a little way in.

		cm	mm	m	Significant
					digits
And And And Control of Control	A				
	В	·			
	C				
	D				
	E				
	F	·			
	G				
·	H				
	I				
	J				
	K				<u> </u>
	L				
w a horizontal line of the given leng	th next to the numbers h	elove.			<u> </u>
w a nonzonal mie of the given leng	gui next to the numbers t	ciow.			
5-cm			V		

Γ							e rectangles to	
A		* .			Height (cm)	Width (cm)	Area (cm²)	Are (m ²
				A			and medical	
B	is a second of the second of t		<u> </u>	В	7			st.
c				С				
				D		·		
)		·		E				
D -			L					
E								

)	When adding or subtracting numbers, the answer is rounded off to the least number of decimal places. So $2.3 + 6.55$ is calculated to be 8.85 but must be rounded off to the least decimal place which is a tenth (2.3) so the final answer is 8.9 since the 5 rounds up the 8 to a 9 .
	Calculate the perimeter in cm to the correct number of sig figs of each box above
	\mathbf{A}
	В
	\mathbf{c}
	D
	E
	Calculate the total length of all the lines in cm for number 1 to the correct number of sig figs
)	Total Length = Calculate the total area of all the boxes above in cm ² to the correct number of sig figs
	Total Area =
	b) Mass Measurements Mass is measured in kilograms (kg). A kilogram is 2.2 pounds. It is measured with a balance of some kind which often is given in grams (g). A kg is 1000 g. Mass yourself in pounds and convert it to kg and grams to the correct number of sig figs.
	Pounds (lbs) kg g
	c) <u>Time Measurements</u> Time is measured in seconds (s).
A STATE OF THE PARTY OF THE PAR	Find your pulse (yes, you have one) and count your number of pulses for one minute. Calculate the time for

Time for one heartbeat (seconds per pulse) =

one heartbeat.

Pulses per 60 seconds =