AIM : To find the thickness of the object using vernier Caliper and Screw Gauge

APPARTUS:

- Screw gauge.
- Vernier caliper.
- Object required for measuring thickness. (MOBILE PHONE)

FORMULAE:

- MSD+VC*(LC)
- MSD+HSR*(LC)

MSD=Main scale reading.
VC= Vernier scale reading.
LC= Least count.
HSR= Head scale reading.

OBSERVATION TABLE:

object: mobile phone			
actual width:0.9cm			
VERNIER SCALE			
No of readings	MSD	VC	MSD+VC*LC
1	1	0	1
2	1	1	1.01
3	1	9	1.09
4	1	9	1.09
5	1	7	1.07
6	1	0	1
7	1	0	1
8	1	1	1.01
9	1	3	1.03
10	1	3	1.03
11	1	1	1.01
12	1	9	1.09
		AVERAGE:	1.039

SCREW GAUGE				
No of readings	MSD	HSR	MSD+HSR*LC	
1	1	35	1.035	
2	1	30	1.03	
3	1	50	1.05	
4	1	40	1.04	
5	1	30	1.03	
6	1	35	1.035	
7	1	45	1.045	
8	1	30	1.03	
9	1	35	1.035	
10	1	30	1.03	
11	1	40	1.04	
12	1	35	1.035	
		AVERAGE:	1.036	

RESULTS:

- The thickness of the mobile phone using the verinier caliper is: 1.039.
- The thickness of the mobile phone using the screw guage is: 1.036.

CONCLUSION:

BOTH THE THEROTICAL AND PRACTICAL VALUES OF THICKNES OF MOBILE PHONE WAS ALMOST EXQUALL.
THE SLIGHT DIFFERENT IN READING IS BECAUSE OF ERRORS.