READING A MICROMETER

Get Precise Measurements



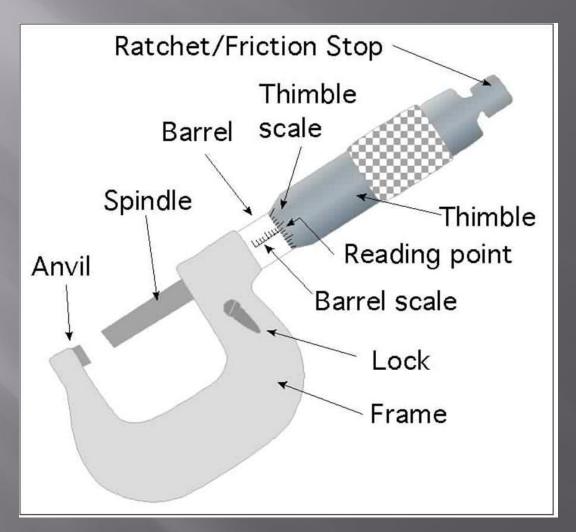
Small Engines Use 3 Types

Micrometer
Caliper
Depth Gauge Micrometer

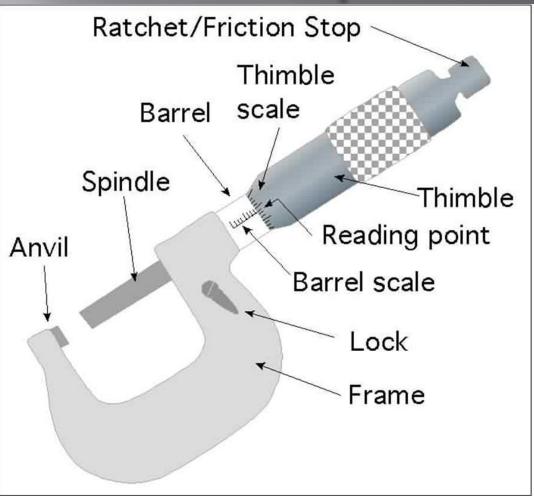
Micrometers

Measure as small as 1/10,000 of an inch (.0001 inch)
Different frame sizes are used to provide a wider measurement range.

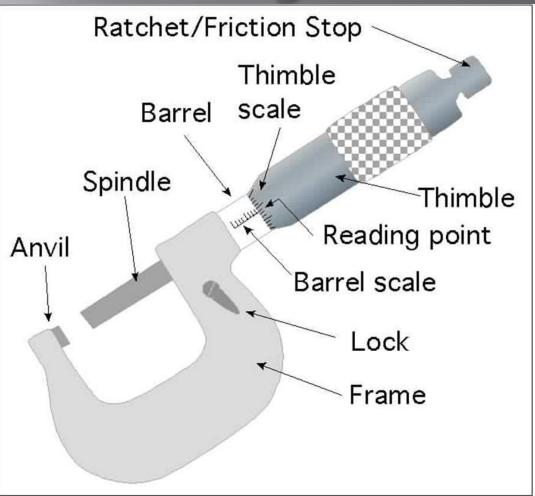
Know the Parts



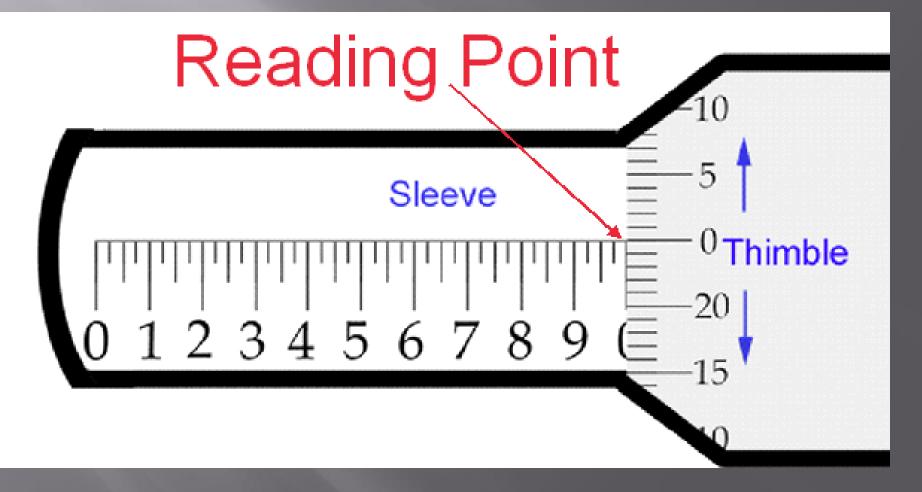
Spindle and Anvil are the contact points



Spindle and Thimble turn together

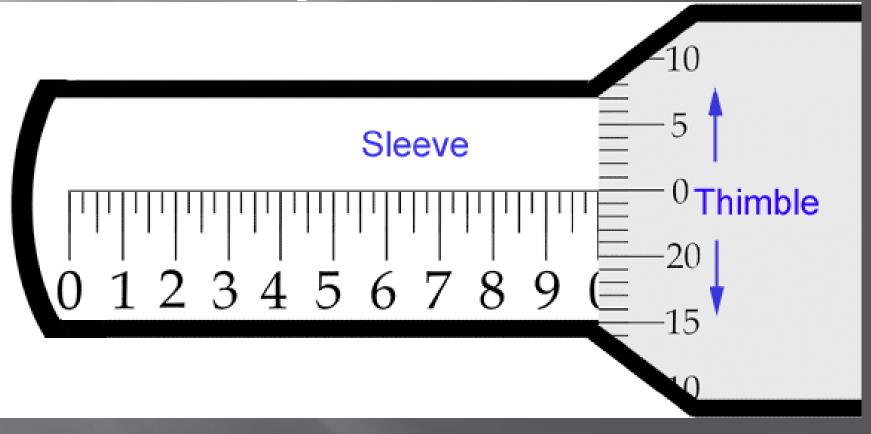


A micrometer caliper is read at the point were the edge of the thimble crosses the barrel scale or sleeve

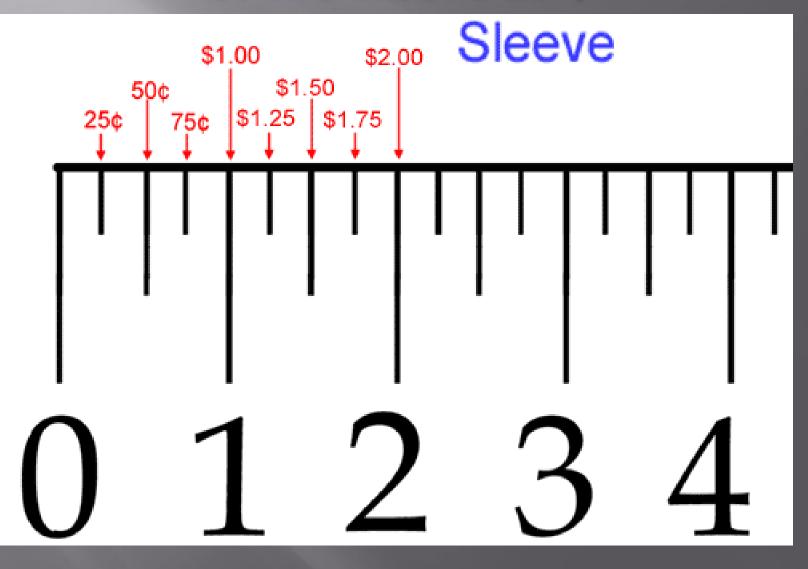


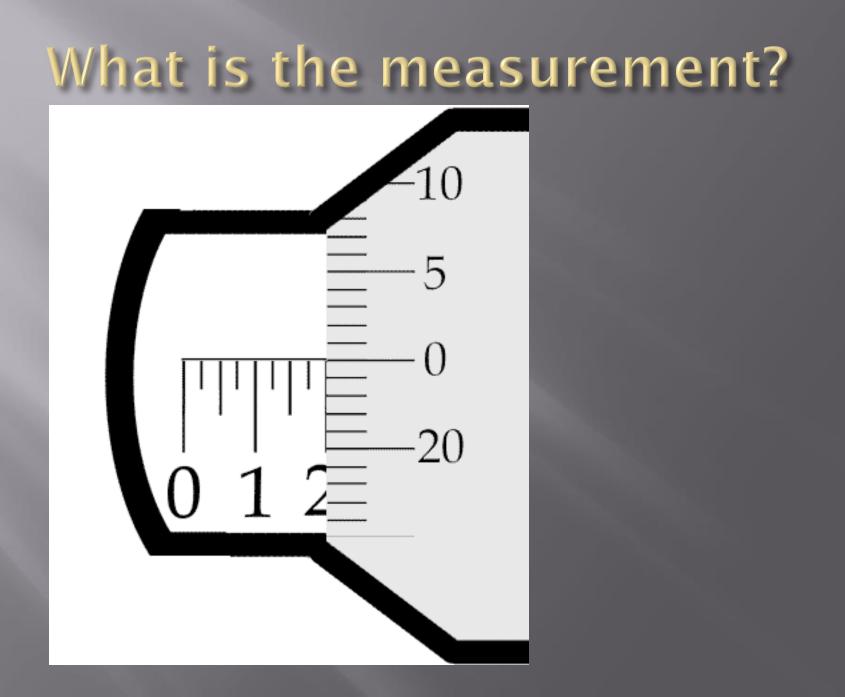
The Sleeve

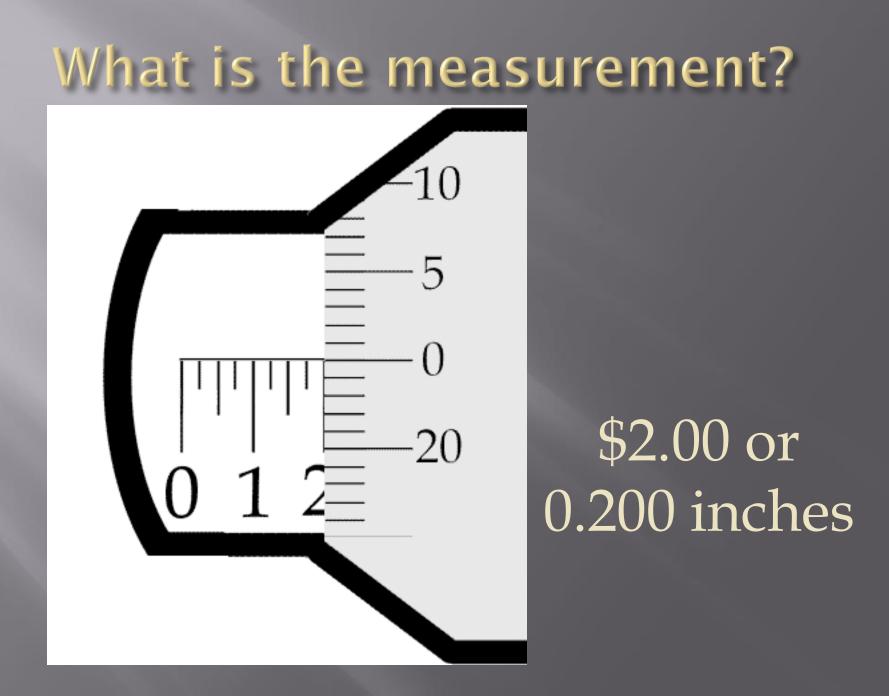
 The space between each number is divided into quarters.

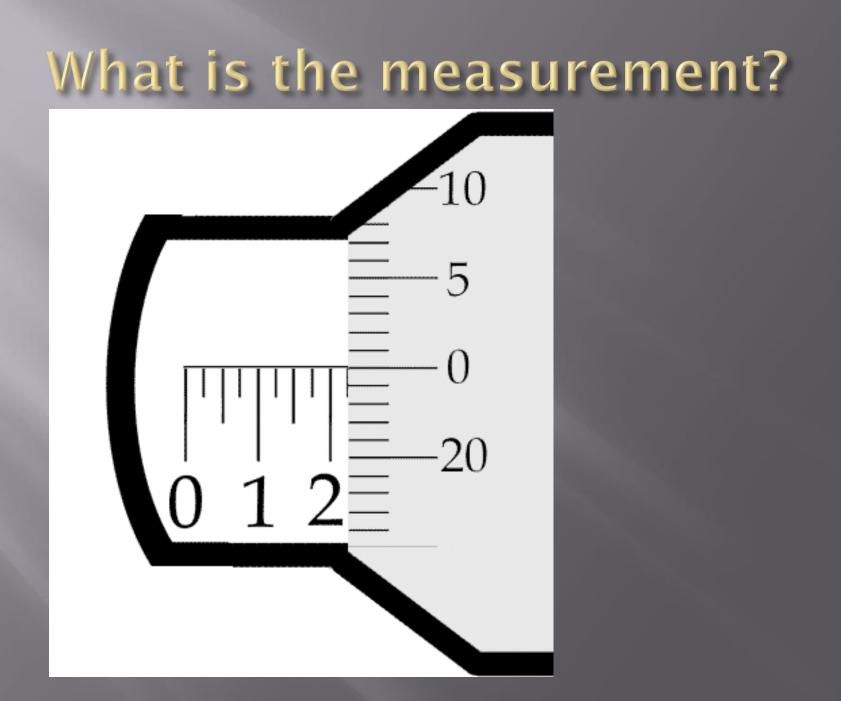


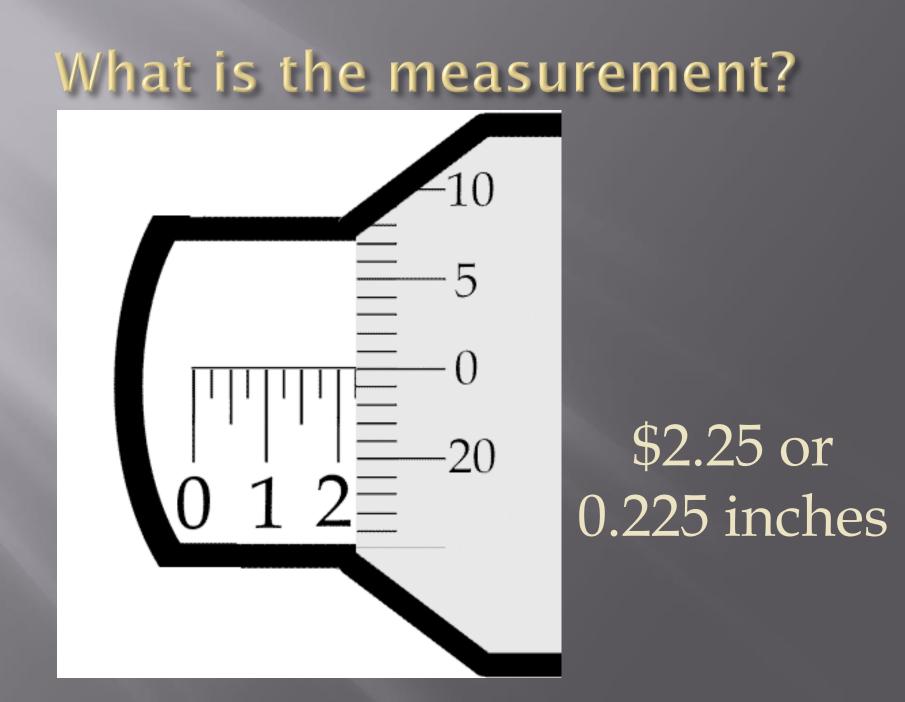
Easy to read just think of the sleeve as \$

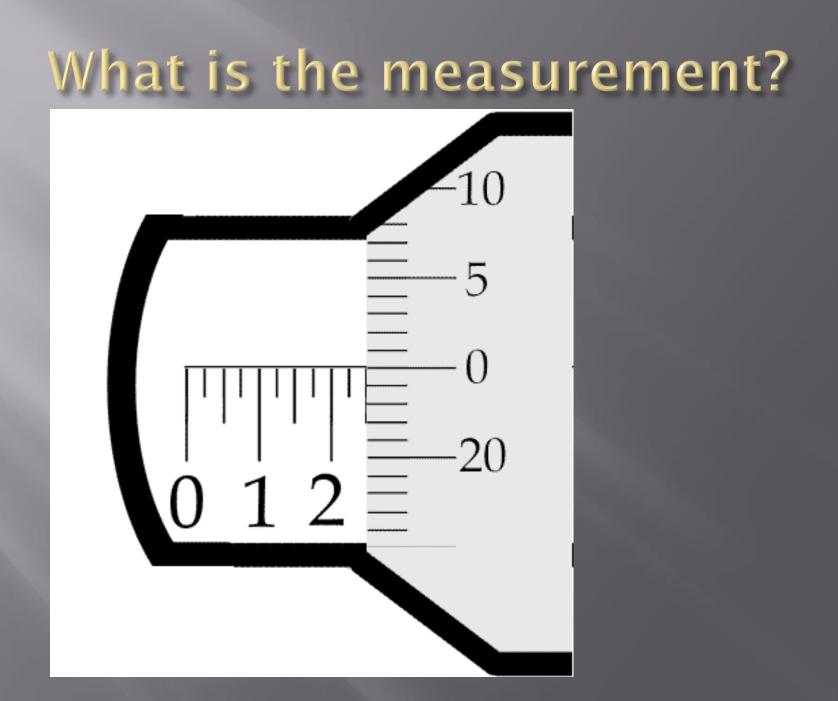


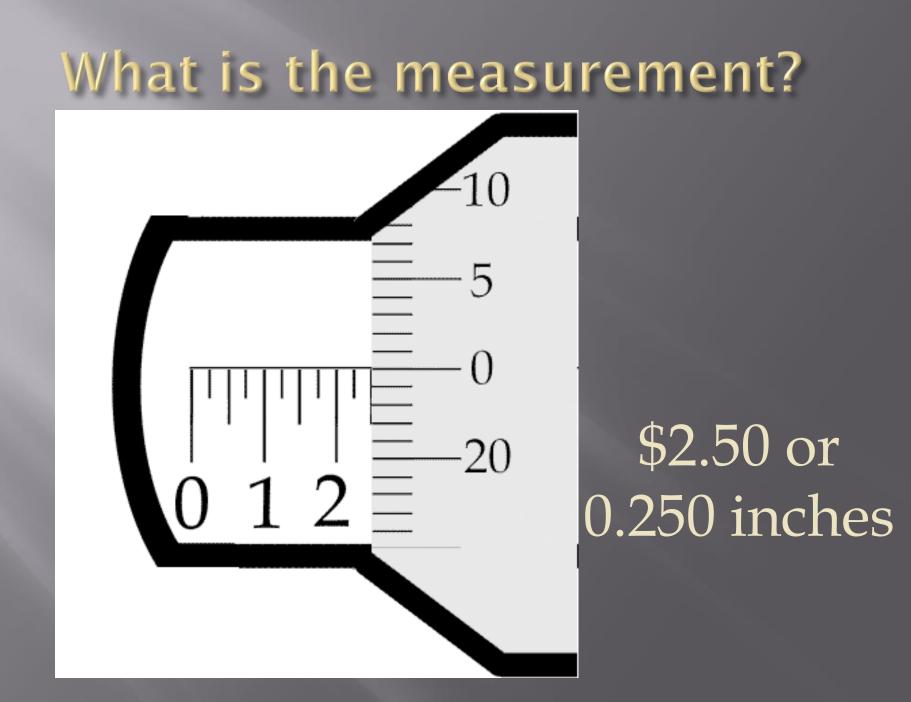


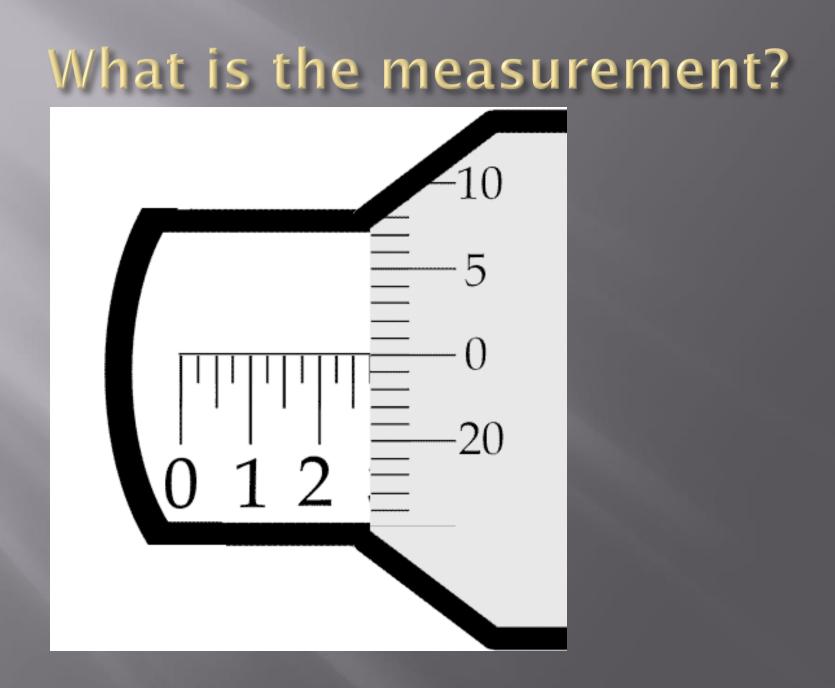


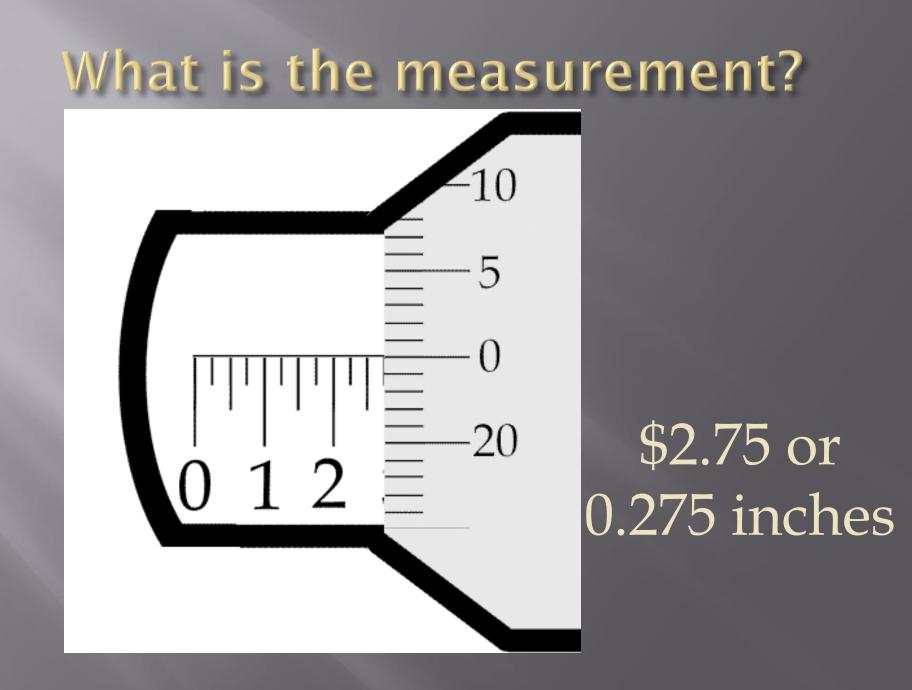


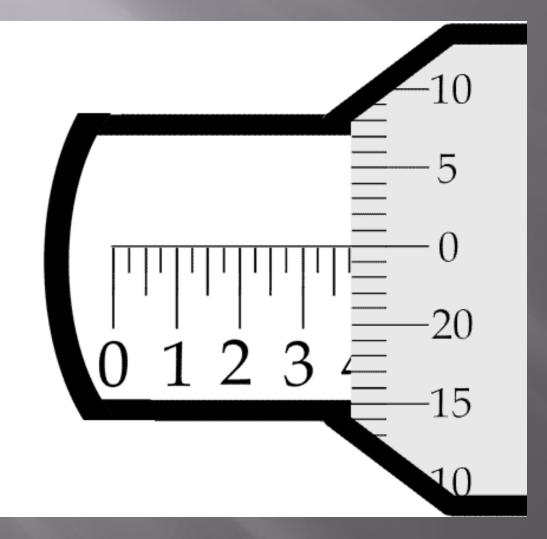


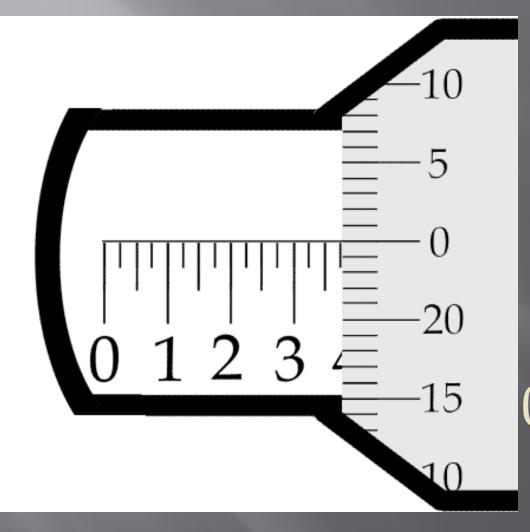






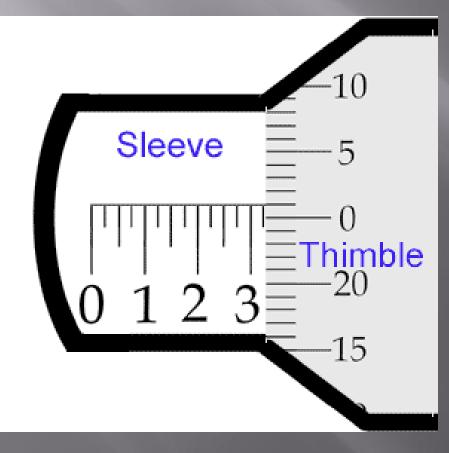






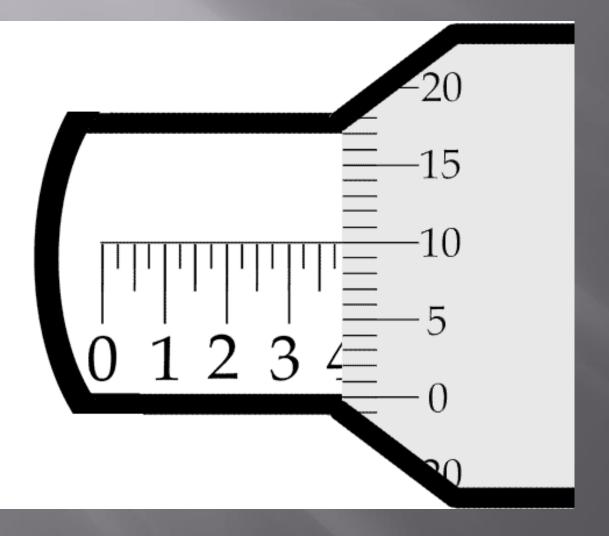
\$3.75 or 0.375 inches If the sleeve is dollars and quarters, the thimble is pennies

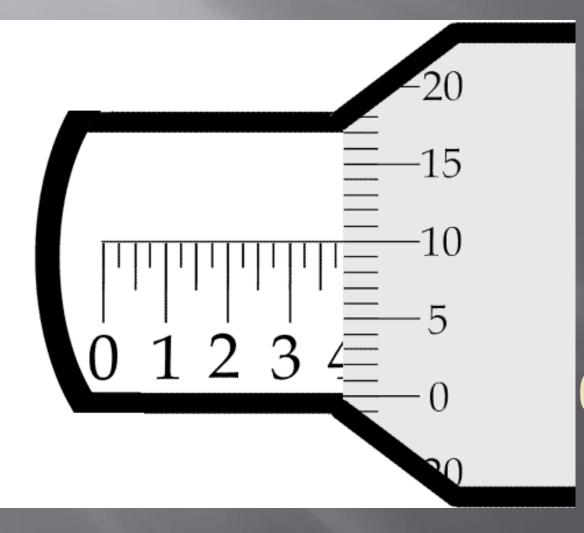
As the thimble rotates add the pennies to the dollars and quarters.



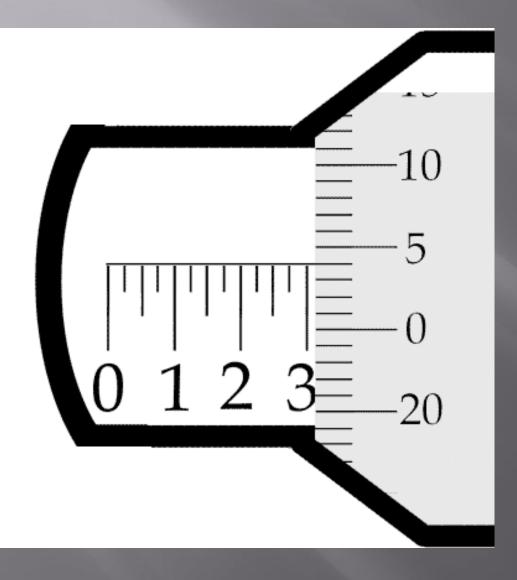
Reading the sleeve we get \$3.25 or .325 inch. Now add the pennies, or .001 to the sleeve measurement.

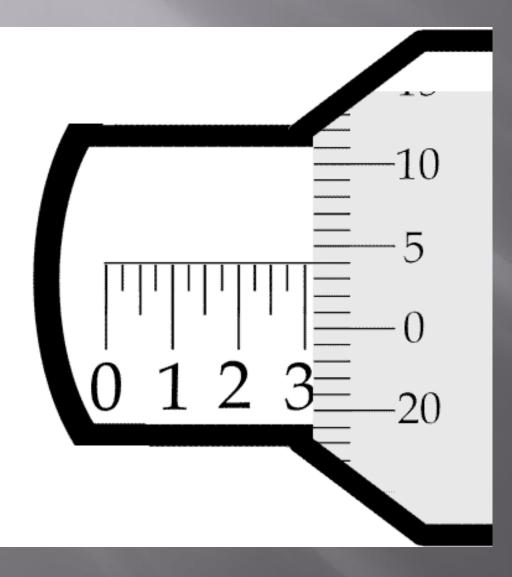
.326 inch



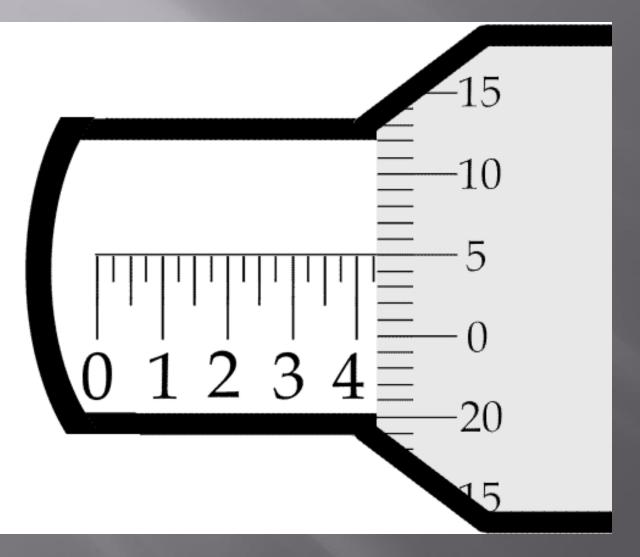


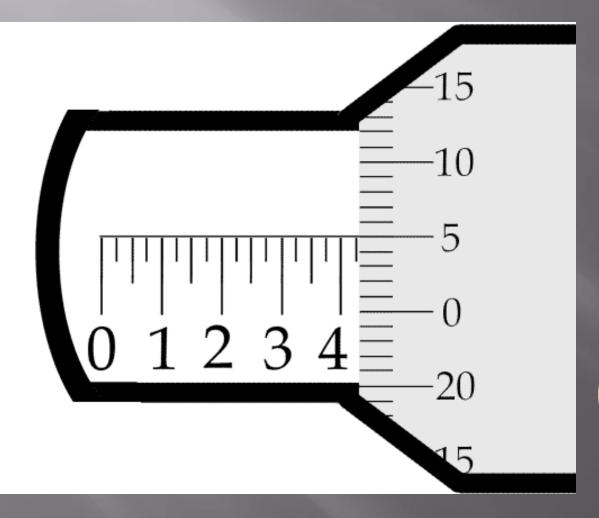
\$3.75 + .10 or 0.385 inches



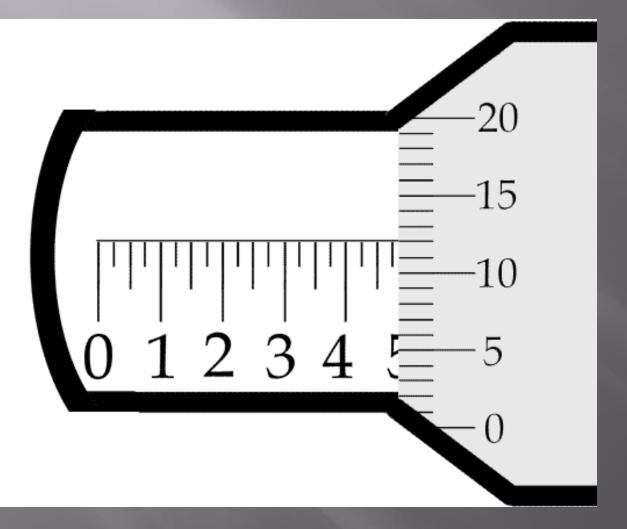


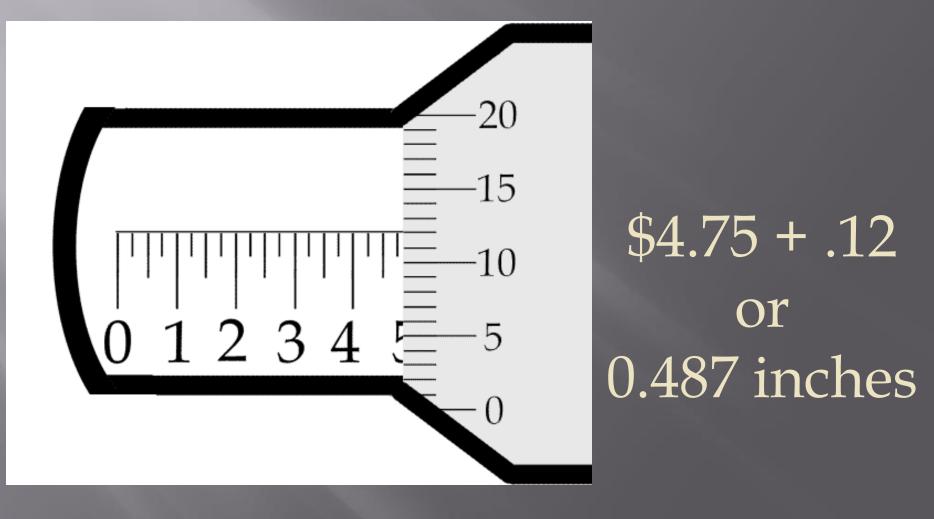
\$3.00 + .04 or 0.304 inches





\$4.25 + .05 or 0.430 inches





Practice

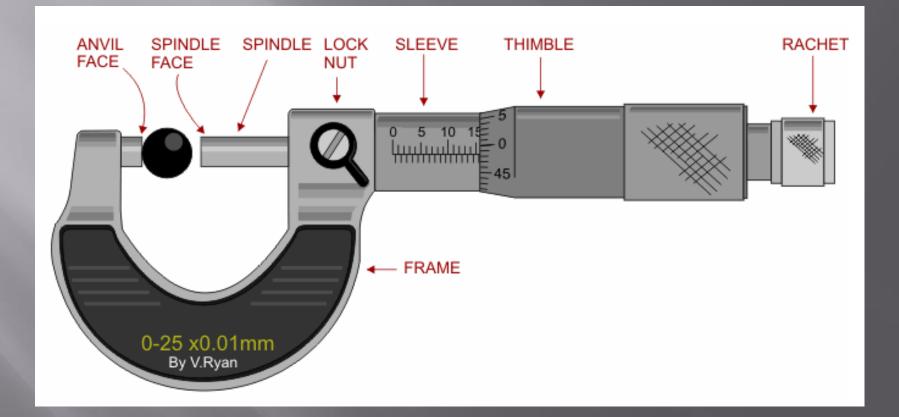
Reading a micrometer gets easier with practice!

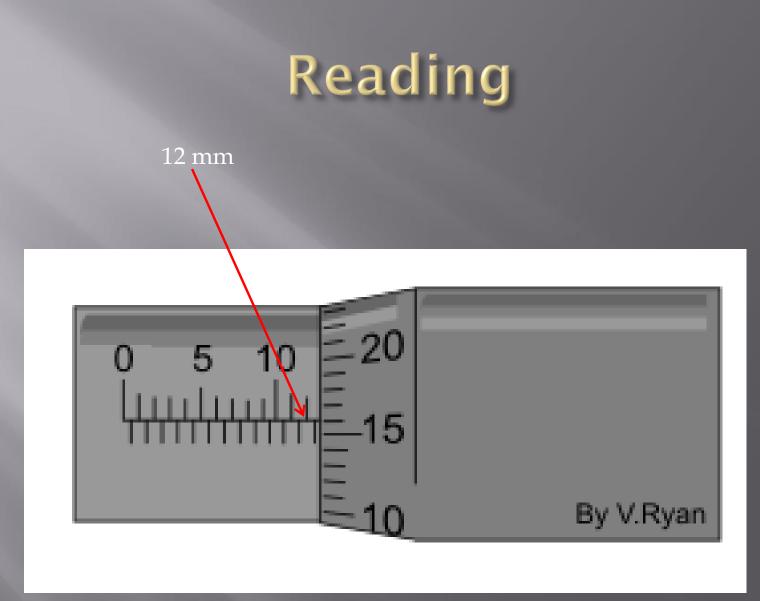




METRIC MICROMETERS

Parts of a Metric Micrometer

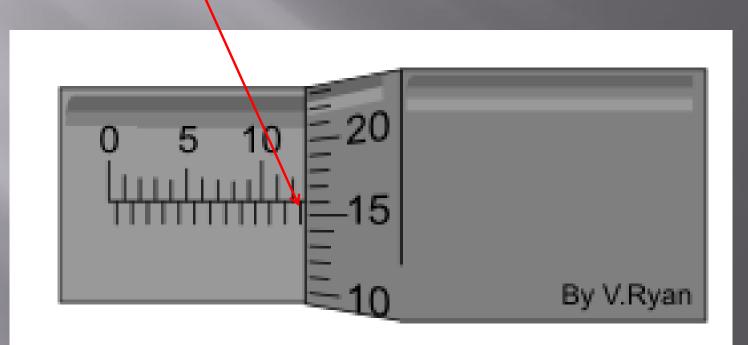




Read the scale on the sleeve, these are full mm.



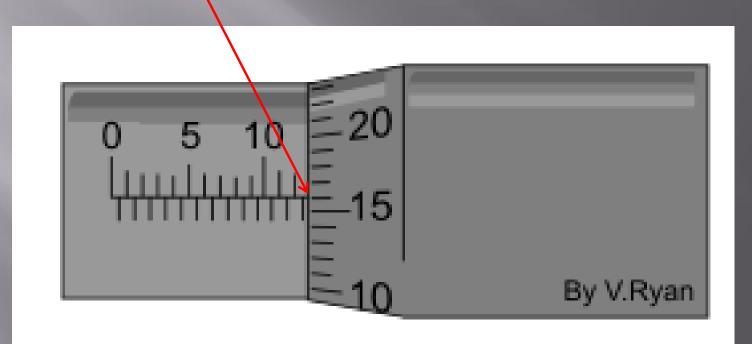
12mm + 0.5mm = 12.5 mm



Still reading the scale on the sleeve, a further $\frac{1}{2}$ mm can be seen on the scale below the full mm scale. Our measurement is now 12.5 mm.

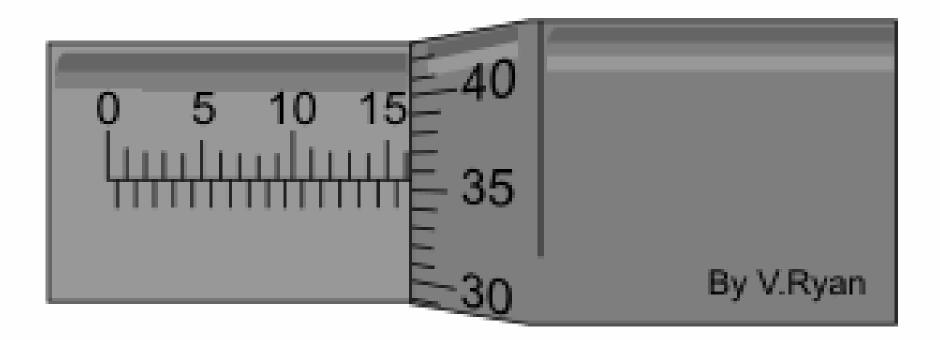
Reading

12mm + 0.5mm + 0.16mm = 12.66 mm

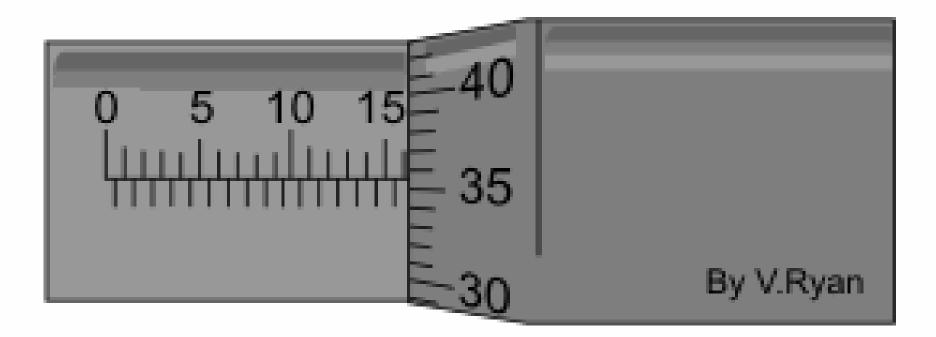


Finally, the thimble scale shows 16 full divisions (these are hundredths of a mm). Our measurement is now 12.66 mm.

Let's Try Another

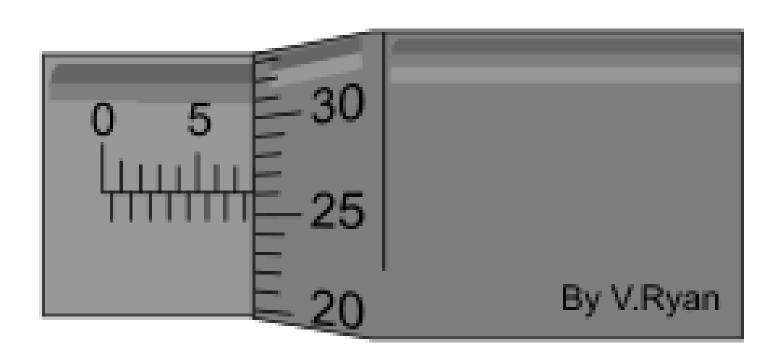


Let's Try Another

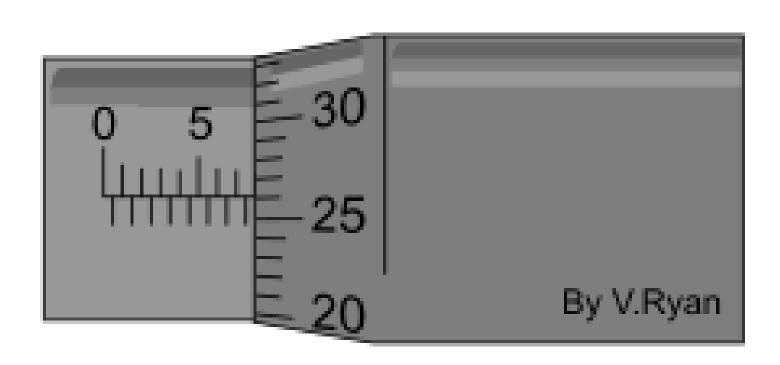


16 + .35 = 16.35 mm

On Your Own



On Your Own



7 + 0.5 + 0.26 = 7.76 mm