

INFORMATION SHEET

ON

MICROMETER

SUBJECT: Read The Micrometer

INTRODUCTORY INFORMATION:

In many trades the micrometer is an instrument used to make very precise measurements. To read the micrometer the operator must note three separate items. Two of these items or readings are taken from the barrel of the micrometer and the third is taken from the thimble. Accuracy in the reading of the micrometer is as important as taking the actual measurement.

GENERAL INFORMATION:

Spindle Threads

There are 40 single threads per inch on a micrometer spindle. One turn of the thimble on this screw moves it $1/40$ of an inch. To change $1/40$ to a decimal, we write it thusly: $1/40 = .025$ ".

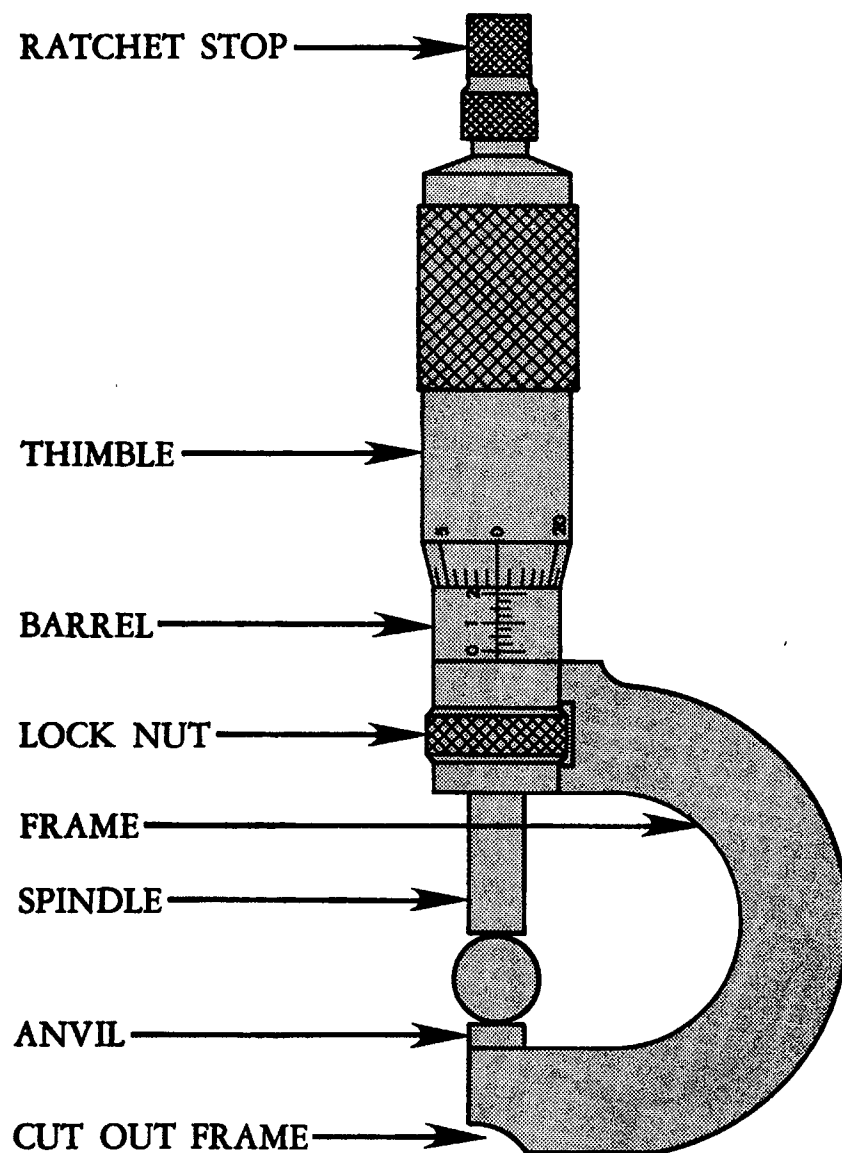
Barrel

The barrel is marked in such a manner that a line is scribed for each $1/40$ or $.025$ ". To aid in keeping track of these lines, every time four lines are passed a number appears. For example, when the micrometer is opened from 0 through four complete turns of the thimble, the figure 1 appears on the barrel. This figure is read as $.1$ " or one-tenth of an inch. To assist further in reading the "mike," the thimble is graduated into 25 equal parts. Each line on the thimble is $1/25$ or $1/40$ or $1/1000$. The fraction $1/1000$ is written as a decimal thusly: $.001$ ".

Read The "Mike"

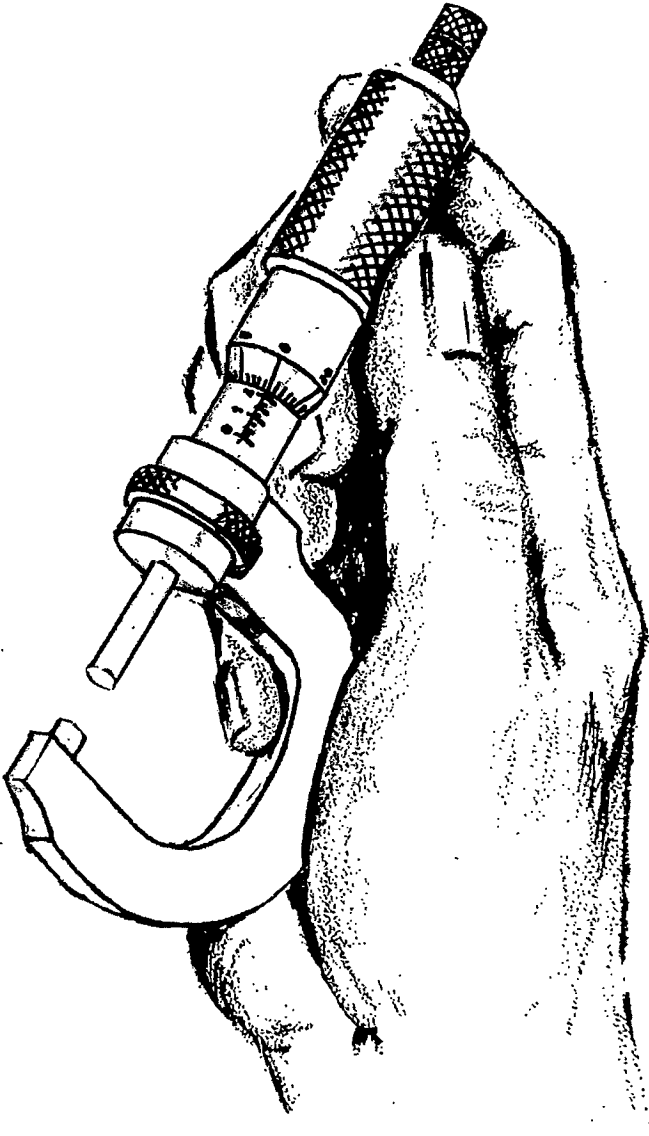
To read the mike, first observe the number of divisions on the barrel, the line on the barrel, and the number of thousandths on the thimble. Take a reading from the mike by counting the number of divisions visible on the barrel and add to this amount the number of thousandths on the thimble coinciding with the line on the barrel. The reading on the mike parts illustration sheet is $.225$ ".

PARTS OF THE MICROMETER CALIPER



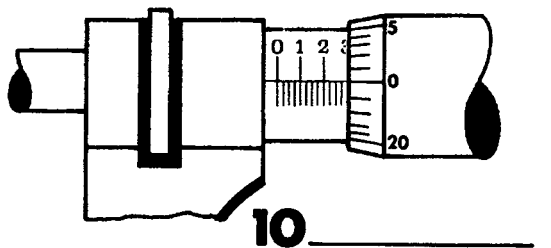
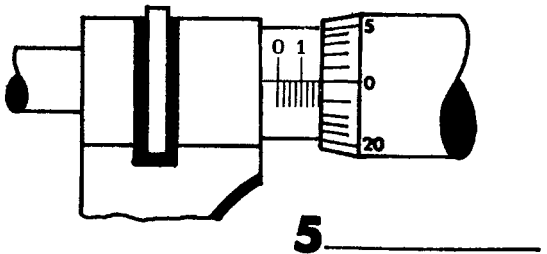
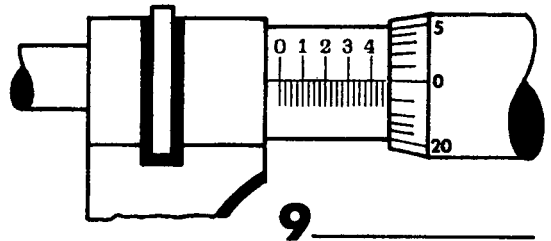
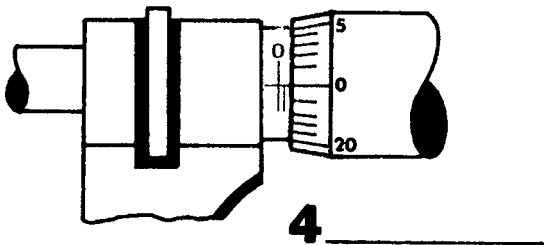
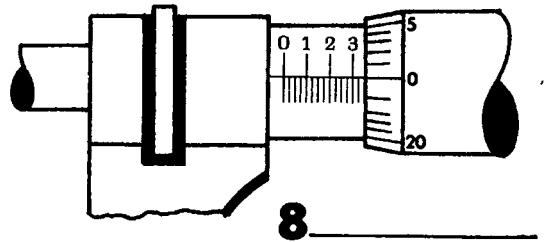
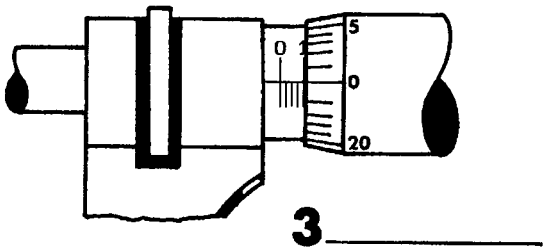
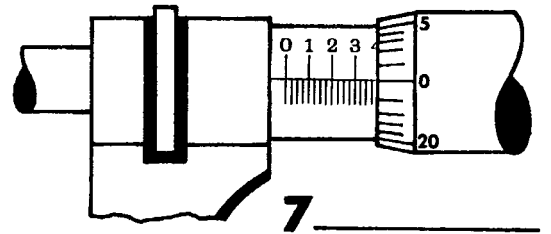
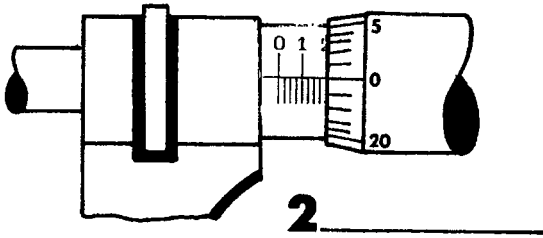
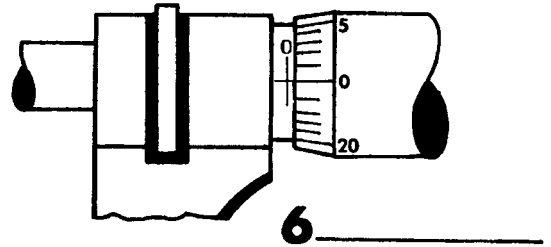
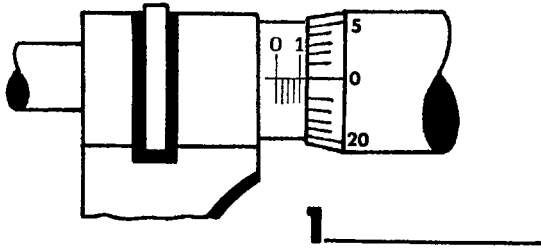
READING ON MIKE .225

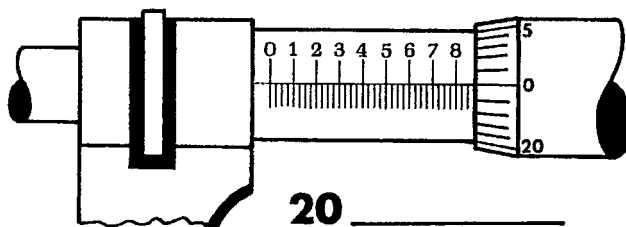
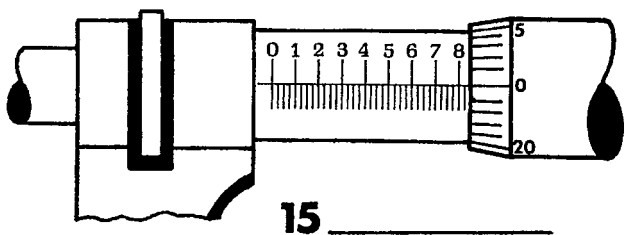
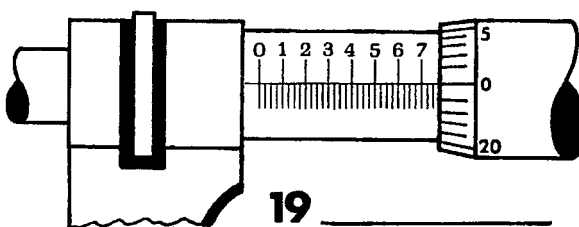
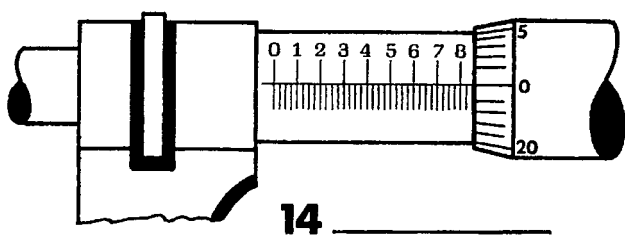
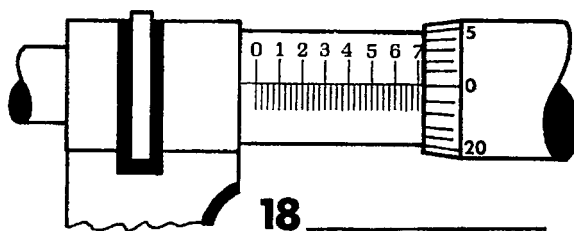
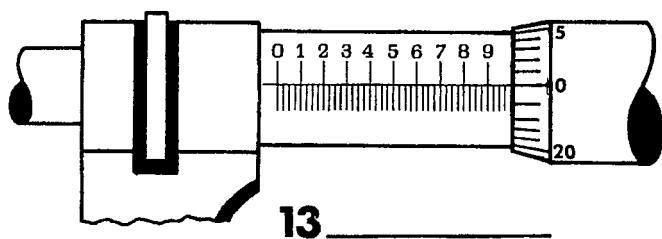
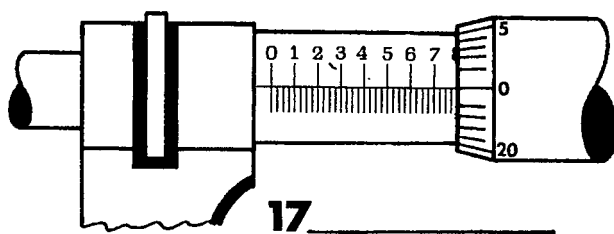
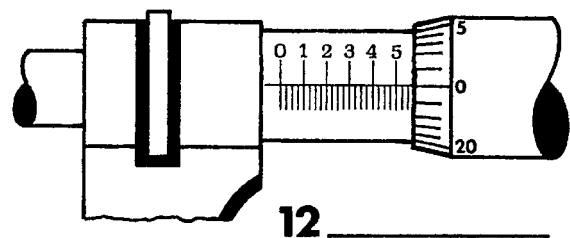
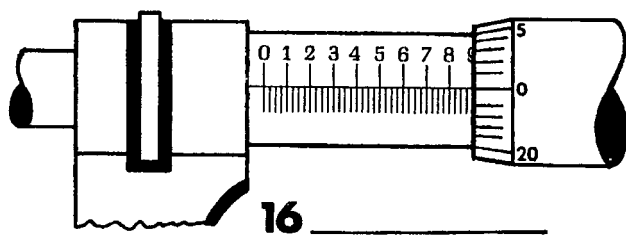
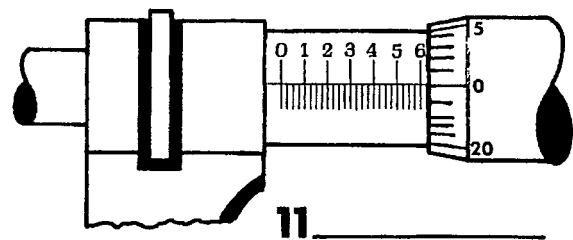
HOLD THE MICROMETER CALIPER



Pictorial Recall Test Sheet
on
Reading The One Inch Micrometer

What are the correct readings in thousandths of an inch for the following settings on the one inch micrometer? Write in the correct answer in the blank space provided by each illustration.





Pictorial Recall Test Sheet
on
Reading Various Size Micrometers

What are the correct readings in thousandths of the following settings on various size micrometers? Place the correct answer in the blank space provided by each illustration.

