

4462 Lab – Measuring Instruments

Name: _____

Date: _____

Each student will be given a “bearing roller.” Each roller is different.

Keep up with your unique workpiece.

You will measure both the diameter and length for **your bearing**.

First, measure with the decimal ruler

Diameter: _____ Length: _____ For this ruler, record to two decimal places. Make your best estimate of the hundredths place.

Now measure with the both of the digital calipers

Caliper 1 Diameter: _____ Length: _____

Caliper 2 Diameter: _____ Length: _____

Measure with dial calipers

Diameter: _____ Length: _____

Measure with micrometer

Diameter: _____ Length: _____

Measure with the dial height gag

Diameter: _____ Length: _____

Measure with digital height gage: Be sure to calibrate from gage block first.

Diameter: _____ Length: _____

Estimate surface roughness using comparator: Ra _____ Microinches