Instructional Caliper 46349

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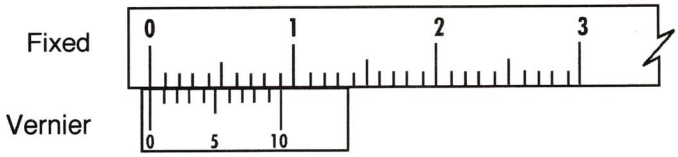
OVERVIEW

The vernier caliper is used to make inside, outside and depth measurements. Many vernier calipers have both metric and English scales. Consider the demonstration vernier caliper. The fixed scale located on the fixed portion of the vernier caliper is divided into divisions of 10 spaces. The scale on the vernier is 9 of the fixed scale units divided into 10 parts. Each division on the vernier scale equals 0.9 of a division on the fixed scale.



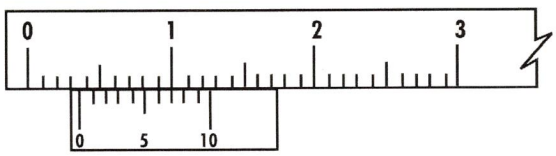
PROCEDURE

Read the caliper from the left end of the vernier scale. When the left end lines up with one of the lines on the fixed scale, read the setting as 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9 if you are between 0 and 1. If you read between 1 and 2, read the setting as 1.1, 1.2, 1.3, 1.4 through 1.9. In like manner you can read settings between 2 and 3, 3 and 4, 4 and 5, and between 5 and 6.

If zero graduation on the vernier scale is not directly in line with a graduation on the fixed scale do the following:

1. Find the graduation on the vernier scale that is most nearly in line with any graduation on the fixed scale.

2. Count the number of graduations on the vernier scale from the zero graduations to determine the number of hundredths of units in the measurement.



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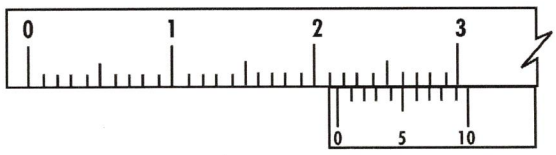

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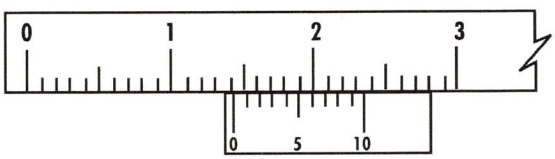

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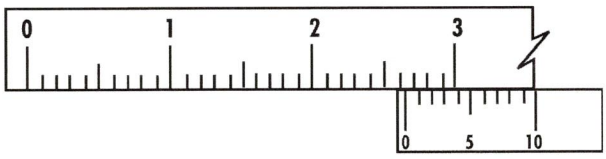

2.63

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