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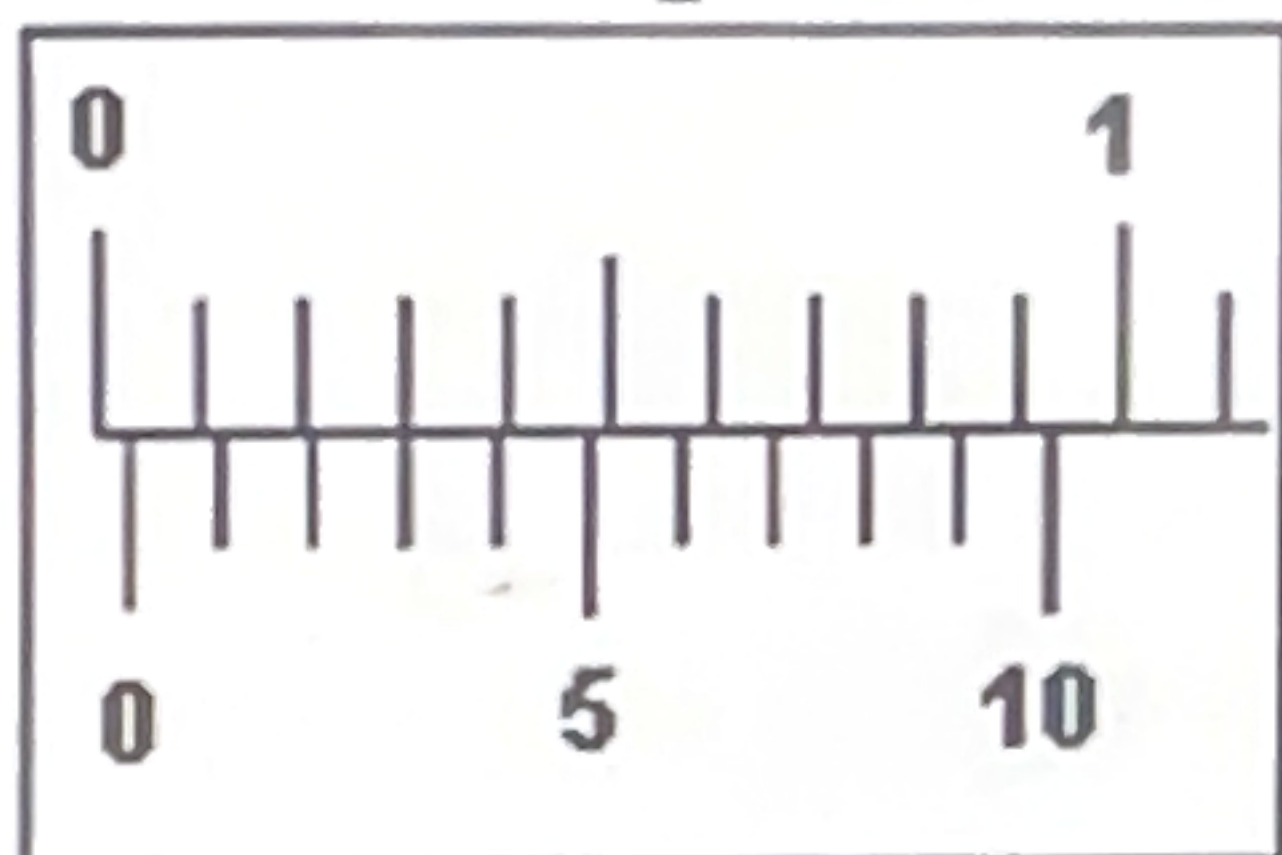
Pre-lab 1:

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 Serial No: 24

The following questions must be answered and turned in at the beginning of the lab.

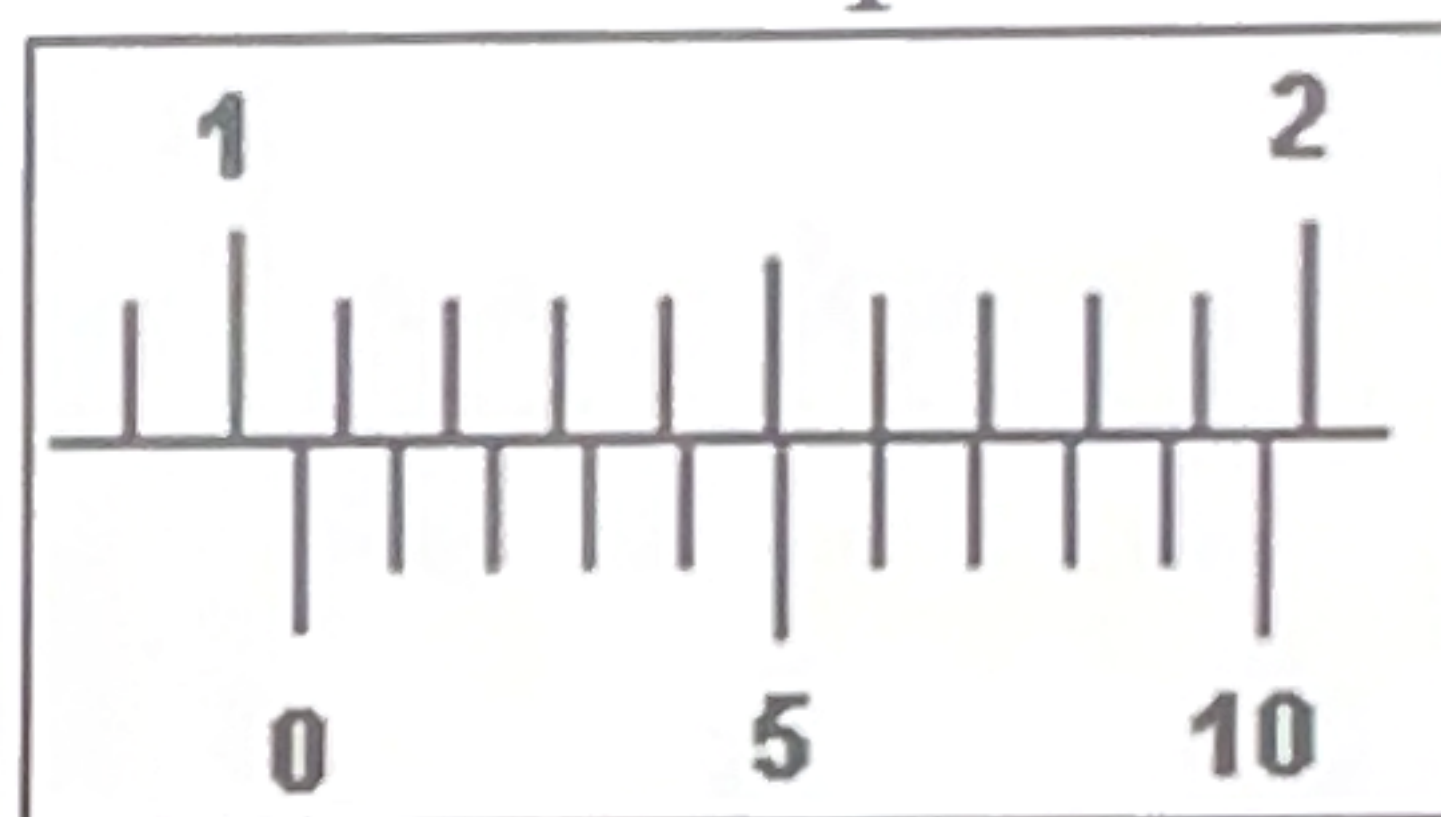
1. Look at the figure below and correctly read each slide caliper reading. Consider the Vernier constant 0.01 cm.

Caliper 1



Caliper 1 = 0.03 cm

Caliper 2



Caliper 2 = 1.06 cm

2. Suppose two students measure the length of a piece of wire three times each. Student A obtains results of 8.09, 8.10, and 8.11 centimeters. Student B obtains determines a length of 8.1 centimeters for all of his three measurements. Although the average length found for each student's measurements was 8.1 cm, what qualitative statements can be made concerning the measurements made by students A and B?

Here,

student A's measurement (8.09, 8.10 & 8.11^{cm}) which suggest high precision because slight variations show that measurement are taken carefully. On the other hand, student B's measurement (8.1 cm) which is consistently same but it lacks precision. Because it does not show any variation which possibly indicates rounding measurement process.