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Pre-Laboratory Assignment

1. A cylinder has a length of 3.23 cm, a diameter of 1.75 cm, and a mass of 65.3 grams. What is the density of the cylinder? Based on its density, of what kind of material might it be made? Material is likely to be: Brass (Show your work.)

$$\rho = (4M)/(\pi d^2 L) = (4)(65.3)/(3.14)(1.75)^2(3.23) = 8.41 \text{ g/cm}^3$$

2. Figure 2-4 shows a vernier caliper scale set to a particular reading. What is the reading of the scale? Reading = 2.22 cm

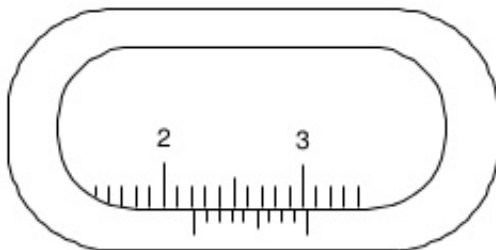


Figure 2-4. Example of a reading of a vernier caliper.

3. The caliper in Figure 2-5 has its jaws closed. If the caliper has a zero error what is its value? Is it positive or negative? Error = -0.03 cm

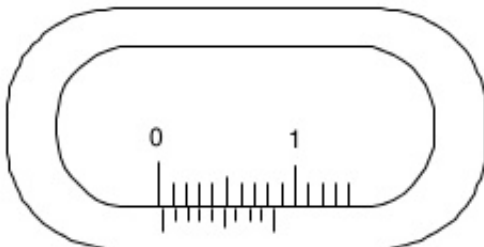


Figure 2-5. Vernier caliper with its jaws closed. Does it have a zero error?

4. A series of four measurements of the mass, length, and diameter are made of a cylinder. The results of these measurements are:
Mass - 20.6, 20.5, 20.6, and 20.4 grams
Length - 2.68, 2.67, 2.65, and 2.69 cm

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