



## Lab 1: Worksheet

1. The rev. Adjustment coarse/fine focus of a compound microscope can be adjusted to maximize the resolution. The condenser lens focus the light at the level of the specimen.
2. True or False? You can use either the coarse or fine focus when viewing through the 10 $\times$  objective. False (use Fine focus)
3. The *Paramecium* below was viewed through a 40 $\times$  objective lens. Estimate the length (i.e., the longest dimension) of this organism in millimeters.



$$\begin{aligned}
 \text{Actual size of cell} &= \frac{\text{diameter of field of view}}{\% \text{ of times organism can fit in field of view (largest dimension)}} \\
 40\times &= 0.44\text{mm} \\
 &= \frac{0.44\text{mm}}{\text{approx } 3.5} \\
 &= 0.125714... \text{mm} \\
 \text{Paramecium is } &0.13\text{mm}
 \end{aligned}$$

4. Fill in the blank:
  - a. Prokaryotic organisms include two major groups, bacteria and archaea. Eukaryotes are comprised of four major groups: protists, fungi, plants, and animals.
  - b. Prokaryotes have a cell wall made of polysaccharides and amino acids, while the same structure in plants is composed of cellulose and in fungi is chitin.
  - c. Prokaryotic DNA is typically organized in a single circular chromosome, located in the nucleoid region. Eukaryotes, in contrast, store DNA in their nucleus.
  - d. Some bacterial cells have a gelatinous outer covering called a glycocalyx. What is the function of this structure?
    - Protects the bacterium from desiccation
    - Traps water
  - e. Other bacteria use rotating flagella for locomotion.

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