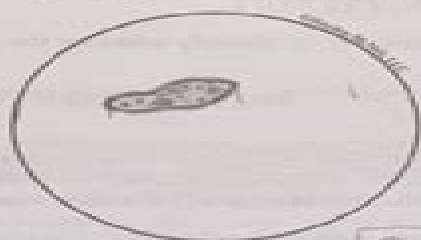




## Lab 1: Worksheet

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.

# Mcgraw Lab Manual Answers

**J Rink**



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web jul 11 2023 students use model chromosomes to simulate the processes of meiosis and fertilization as they model

meiosis and fertilization students follow the alleles of three human genes from the parents body

*7 3 modeling mitosis and meiosis activity biology libretexts* - May 04 2023

web mar 23 2021 simulate mitosis move the chromosomes through each of the four stages of mitosis draw and label the pop

bead chromosomes for one of the phases on a separate sheet it is not necessary to draw each individual bead draw a large

circle on the paper to represent the cell and the nucleus with a pencil

**lab 8 the modeling and microscopic observation of mitosis and meiosis** - Mar 02 2023

web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and

meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells