CS 8.2 Question Set #1:

- 1. How should you prepare your work area before bringing materials to it?
- 2. How should you carry the microscope to your work area?
- 3. What parts of the microscope should you keep clean? Why?
- 4. Would you be able to see any of the following items without using a microscope? Which ones?
 - a. a liver cell (about 0.02 mm)
 - b. the head of a pin (about 1 mm)
 - c. an amoeba (about 0.1 mm)
 - d. a paramecium (about 0.23 mm)
 - e. a red blood cell (about 0.007 mm)
- 5. Which of these sizes surprise you in Q4? Which ones? Why?
- 6. What is the function of a compound microscope?
- 7. Your classmate is viewing a specimen using high power and is about to refocus using the coarse adjustment knob. What would you recommend your classmate do and why?
- 8. If your microscope has a 10x eyepiece, what is the total magnification when you use a:
 - a. 4x objective lens
 - b. 10x objective lens
 - c. 40x objective lens
- 9. Imagine you are given a specimen that measures 0.03 mm. If you use a microscope with a 10x eyepiece and a 40x objective lens, how big will the image of the magnified specimen look?