Onion-Skin Cells

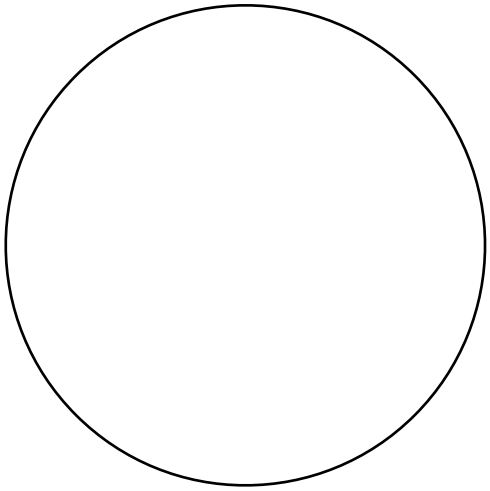
Name:

Period:

Use the slide strip #102 and a plastic microscope for this. Use colored pencils to make a drawing in the circle of what you see. Then, answer the questions using what you observed and information from the paragraph below.

Circle #2 shows onion skin, which is a tissue that separates the thick layers of an onion. You should be able to see a single dark spot labeled "N" in the center of each cell. This is the organelle that contains DNA to control that cell's activities. The onion tissue is divided up into different chambers by the structure labeled "W". Each cell is filled with liquid (labeled "C") that contains organelles. Between the liquid and the walls of each cell you should be able to see a thin protective layer, labeled "M".

When you draw, do NOT draw the letters and lines you see on the photo!



1. Is this a unicellular or multicellular organism? _____

2. How can you tell this? _____

3. What organelle is found in the center of each cell? _____

4. Do any of the cells have more than one nucleus? _____

5. What are the cell walls made of? *[Hint: check p.120 of your book]* _____

6. Which of the cell structures or organelles you drew in the photo are only found in plant cells?

_____

7. Write the terms **nucleus** □, **cell membrane** □, **cell wall** □, and **cytoplasm** □ outside of the circle, and draw a line from the term to part of your drawing so it touches that part in the drawing.

Lab: 11 points