Structure and Function of Hair Practice
1. In the following diagram, label the three parts of the hair shaft.

2. What are the three main cuticle patterns?
   a. Corona
   b. Spinous
   c. Imbricate

3. Label the shapes of the cuticles in the following pictures.
   a. Imbricate  d. Spinous
   b. Imbricate  e. Corona
   c. Imbricate  f. Imbricate
4. What layer are the pigment granules found in?
   Pigment granules are found in the cortex.

5. A cellular column running through the center of the hair is known as the Medulla.

6. Label the type of medullas in the following pictures. Use the terms: continuous, interrupted, fragmented, solid, or none.

   a. Interrupted (regular intervals)  
   b. None  
   c. Continuous  
   d. Interrupted  
   e. Interrupted  
   f. Continuous  
   g. Interrupted  
   h. Solid (fills the medulla and Cortex-no real pattern)  
   i. None

7. What is the medullary index?
   A comparison of the diameter of the medulla compared to the diameter of the entire hair.

8. How does the medullary index differ from animal vs. human hair?
   The medullary index will be greater than 1/3 if the hair is from an animal. The medullary index will be less than 1/3 if the hair is from an animal.

9. A person has wavy hair. What would you expect the shape of her hair to look like under the microscope?
   I would expect this hair to be between round and oval since her hair is not straight and not curly. Since it only has a slight curl, I expect it to be in between the two shapes.