**Pedigree Chart Exercise – Section 14-1**

**Name Class:\_\_\_\_\_\_\_\_\_\_\_\_ Date: October 19, 2017**

**Using Science Skills**

*Use the diagram below to answer the following questions on the lines provided.*

The pedigree shows the inheritance of free earlobes and attached earlobes in five generations of a family. **NOTE:** ***Attached earlobes*** is caused by a **recessive allele (f)**.

 

**Figure 1**

**26. Inferring** Is individual 2 in Figure 1 homozygous or heterozygous for free earlobes? Explain.

**27. Interpreting Graphics** In Figure 1, how many children of individuals 4 and 5 have attached earlobes?

© Pearson Education, Inc., publishing as Pearson Prentice Hall.

**176**

**28. Inferring** Can you be certain of the genotype of individual 5 in Figure 1? Explain.

Name Class Date

****

**29. Predicting** Predict the genotype and phenotype of individual 14 in Figure 1.

**30. Inferring -** In Figure 1, are any of the descendents of individuals 1 and 2 homozygous for free earlobes? Explain your answer.