**Classifying All Organisms**

**Objective:** I can arrange organisms according to kingdom (plant, fungi, animal, protist, Archaebacteria/Eubacteria)

**Procedure:**

1. Fill in the chart below.

2. Create a classification tree AND a dichotomous key from the information in the table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Domain/Kingdom*** | ***Single or Multi-cellular*** | ***Cell Wall*** | ***Producer or Consumer*** | ***Nucleus*** |
| *1. Bacteria (Archaebacteria/*  *Eubacteria)* |  |  |  |  |
| *2. Protista* |  |  |  |  |
| *3. Fungi* |  |  |  |  |
| *4. Plantae* |  |  |  |  |
| *5. Animalia* |  |  |  |  |

**Classification Tree:**

**Dichotomous Key:**

**1a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ go to \_\_\_\_\_\_**

**1b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ go to \_\_\_\_\_\_**

**2a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ……… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ……… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ……… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ……… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ……… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ……… \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Analysis Questions:**

1. Which domain has cells *with* a nucleus? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Which kingdom is it?

A. Is multicellular, cannot produce it’s own food, has NO cell wall. \_\_\_\_\_\_\_\_\_\_\_\_

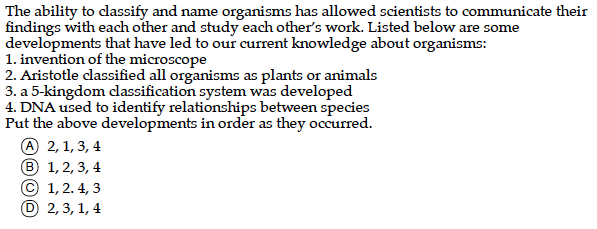
B. Is single-celled, some produce their own food, nucleus. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

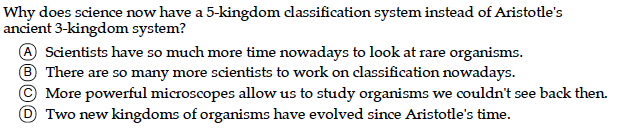
C. Is single-celled, has no nucleus. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D. Is multicellular, can produce it’s own food, cell wall. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E. Is multicellular, cannot produce it’s own food, has a cell wall. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Which bacteria domain is the oldest domain and is considered the origin of life?

4.

5.