**Biology 9: Unit 2 Practice #4**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_

1. Compare prokaryotic and eukaryotic cells in regards to **three** different features. **(3 points)**

|  |  |  |
| --- | --- | --- |
|  | **Prokaryotic** | **Eukaryotic** |
| **1.** | ...................................................................................................................... | ...................................................................................................................... |
| **2.** | ...................................................................................................................... | ...................................................................................................................... |
| **3.** | ...................................................................................................................... | ...................................................................................................................... |

1. Compare animal and plant cells in regards to **three** different features. **(3 points)**

|  |  |  |
| --- | --- | --- |
|  | **Animal**  | **Plant** |
| **1.** | ...................................................................................................................... | ...................................................................................................................... |
| **2.** | ...................................................................................................................... | ...................................................................................................................... |
| **3.** | ...................................................................................................................... | ...................................................................................................................... |

**3.** State the **typical** size of **a bacterium** = .................................... and an **average eukaryotic cell** = .........................................

**4.** An organelle is a discrete structure within a cell with a specific function. In the table below, identify the missing organelles and outline the missing functions.

|  |  |  |
| --- | --- | --- |
| **Name of organelle** | **Structure of organelle** | **Function of organelle** |
|  | Region of the cell containing chromosomes, surrounded by adouble membrane and pores. |  |
|  | Small spherical structures, consisting of two subunits and sometimes attached to Rough ER. |  |
|  | Spherical organelles, surrounded by a single membrane and containing hydrolytic enzymes in animals. |  |
|  | Organelles surrounded by two membranes, the inner of which is folded inwards. |  |