Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cells – Prokaryotic vs. Eukaryotic

**Definitions:**

Unicellular:

Multicellular:

Membrane-bound organelle:

|  |  |  |
| --- | --- | --- |
| **Prokaryotic** | **Eukaryotic** | |
|  | **Plant Cell** | **Animal Cell** |
| Draw a picture of a prokaryotic cell.  Label the cell wall, plasma membrane, ribosomes, cytoplasm, and DNA | Draw a picture of a eukaryotic plant cell.  Label the cell wall, plasma membrane, organelles, cytoplasm, DNA, and nucleus. | Draw a picture of a eukaryotic animal cell.  Label the plasma membrane, organelles, cytoplasm, DNA, and nucleus. |
| An example of a prokaryotic cell is a | An example of a eukaryotic plant cell is a | An example of an animal cell is a |
| **Circle the best answer (may be more than one):** | | |
| A prokaryotic cell is  Unicellular  Multicellular  Not made of cells | A eukaryotic plant cell is  Unicellular  Multicellular  Not made of cells | A eukaryotic animal cell can be  Unicellular  Multicellular  Not made of cells |
| A prokaryotic cell is protected by a  Cell wall  Cell membrane  Protein capsid coat | A eukaryotic plant cell is protected by a  Cell wall  Cell membrane  Protein capsid coat | A eukaryotic animal cell is protected by a  Cell wall  Cell membrane  Protein capsid coat |
| The relative size of a prokaryotic cell is  Extra Small  Small  Large | The relative size of a eukaryotic plant cell is  Extra Small  Small  Large | The relative size of a eukaryotic animal cell is  Extra Small  Small  Large |

**Please answer the following questions using complete sentences**

1. Which cell would you consider more complicated and why?

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2. Does the typical animal cell have membrane-bound organelles? If so, list them.

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3. Does the typical bacterial cell have membrane-bound organelles? If so, list them.

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