**GIS and GPS in Transportation, Distribution, and Logistics**

**Student Note Sheet Key**

Answer the following questions using the PowerPoint presentation.

1. GPS stands for **Global** **Positioning** **Systems**.

2. What organization developed GPS? **U.S. Department of Defense**

3. How many satellites are in the network? **24**

4. What is the calculation used to identify a geographic location called? **Triangulation**

5. How many satellites are needed to effectively identify a location? **4**

6. List 5 errors that could potentially influence accuracy when using GPS?

* **timing**
* **receiver**
* **atmospheric**
* **orbital**
* **surroundings**

7. GIS stands for **Geographic** **Information** **Systems**.

8. List the 5 components of GIS.

* **hardware**
* **software**
* **data**
* **people**
* **procedures**

9. What is a layer? **Digital representation of a geographic feature**

10. List 3 ways GIS can be implemented in Transportation, Distribution, and Logistics.

* **Public transit safety**
* **Regulating airspace**
* **Cost-effective routing**

\*accept any other responses dealing with transportation, distribution & logistics and GIS analysis