**DATA GATHERING SHEET**

My Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is located in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. My object was constructed in \_\_\_\_\_\_\_\_\_\_\_\_.
3. Three cool facts about my object or reasons my object is famous.
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Trigonometric functions are periodic and they relate back to circular functions. Think about why your object is periodic and answer the follow questions. Include units.

|  |  |
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| Maximum height of the entire object. |  |
| Location of the center of the circle (see #5 below). |  |
| Diameter of the object.  |  |
| Radius of the moving parts. The object may have more than one moving part. List them all. |  |
| Amount of time it takes for object to complete one full cycle. Could be different if there is more than one moving part! |  |

1. Print a picture of your object and bring it to class. If possible, the object should be a straight-on view. If the height of the center of the clock cannot be found online, use your picture and proportional reasoning to find the height of the center. Show your work here.