

Name: _____ Date: _____ Class: _____

How Does a Rotation Sensor Work? Mini Activity Worksheet

1. Record your data in the table.

Number of times I rotated the wheel	Number of times the rotation sensor said I rotated the wheel
1	
2	
3	
4	
5	
6	
7	

2. Find the difference between the amount of times you rotated the wheel to the amount of times the sensor said the wheel was rotated.

3. Calculate the percent error in your data.

$$PE = \frac{| \text{Approximate value} - \text{Exact Value} |}{| \text{Exact Value} |} * 100$$

4. Below, write your observations about the sensor accuracy.