**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 |  |

1. **Find the difference between the amount of times you rotated the wheel to the amount of times the sensor said the wheel was rotated.**
2. **Calculate the percent error in your data.**

**PE =| Approximate value – Exact Value| / |Exact Value|\* 100**

1. **Below, write your observations about the sensor accuracy.**