**Engineer a Coin Sorter Math!**

**Engineers use math and science principles in the design process. As an engineer designing a coin sorter, you need to make a few calculations.**

1. **What measurements are important for your design?**
2. **Compare the important measurements of the different coins. (For example, if diameter is an important measurement in your design, what is the difference between the diameter of a penny and the diameter of a nickel?)**

|  |  |  |
| --- | --- | --- |
| **Coin** | **Differences between****Selected Measurement \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Differences between****Selected Measurement \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **penny & nickel** |  |  |
| **penny & dime** |  |  |
| **penny & quarter** |  |  |
| **nickel & dime** |  |  |
| **nickel & quarter** |  |  |
| **dime & quarter** |  |  |

**3. Are there any other important calculations you need to make? If so, complete those calculations on the back of this worksheet.**