Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lesson 1: HOMEWORK – EXPONENTS**

1. Complete the table. Use a calculator when needed.

|  |  |  |
| --- | --- | --- |
| **Exponential Form** | **Expanded Form** | **Standard Form** |
| $$3^{5}$$ |  |  |
|  | $$4×4×4$$ |  |
| $$(1.9)^{2}$$ |  |  |
| $$\left(\frac{1}{2}\right)^{5}$$ |  |  |

1. What is the advantage of using exponential notation?
2. What is the difference between $4x$ and $x^{4}$? Evaluate both of these expressions when$ x=2$.