**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U11 HW #1** *Exponential and Expanded Notation*

1. Write each expression in exponential notation:

|  |  |  |
| --- | --- | --- |
| 1.
 | 1.
 | 1.
 |
| 1.
 | 1.
 | 1.
 |

1. Write each expression in expanded notation
2. 1212  b. $\left(-\frac{2}{3}\right)^{4}$

c. $\left(2.725\right)^{3}$ d. $\left(\frac{7}{3}\right)^{7}$

e. $4j^{2}l^{3}k^{6}$ f. $-\left(2d^{3}\right)$

1. What do the parenthesis ( ) mean in terms with exponents? Show me your understanding in words and examples.
2. Using your calculator, evaluate the following expressions.
3. 13.52 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. (-4)3 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. ( ½ )4 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. -114 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 16.752 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. 3.171 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. What is the difference between exponential notation and expanded notation of powers?

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Create and label an example of each type of notation: