**Lesson 1.3a Homework Practice**

***Product and Quotient Law of Exponents***

|  |  |
| --- | --- |
| 1.) **BONUSES** A company has set aside  dollars for annual employee bonuses. If the company has  employees and the money is divided equally among them, how much will each employee receive? 1. *Are you going to multiply or divide? What words/phrases led you to decide?*
2. *Expression*
3. *Expanded*
4. *Exponential Form*
 | 2.) **SPORTS** Tennis Player A has won matches this year. Tennis Player B has won  matches this year. How many times as many matches has Tennis Player B won over Tennis Player A?1. *Are you going to multiply or divide? What words/phrases led you to decide?*
2. *Expression*
3. *Expanded*
4. *Exponential Form*
 |
| 3.) **CAR LOANS** After making a down payment, Mr. Valle will make  monthly payments of dollars each to pay for his new car. What is the total monthly payments in exponential form? 1. *Are you going to multiply or divide? What words/phrases led you to decide?*
2. *Expression*
3. *Expanded*
4. *Exponential Form*
 | 4.) **BIOLOGY** A scientist estimates that after a certain amount of time, there will be  bacteria in a Petri dish each day. This took place for days. How much bacteria will be in the Petri dish after  days? 1. *Are you going to multiply or divide? What words/phrases led you to decide?*
2. *Expression*
3. *Expanded*
4. *Exponential Form*
 |

****