Standard 6.NS.3 **Multiplying and Dividing Decimals** Unit 1 Day 3

**Multiplying Decimals** – Tips to remember!

* Multiply as if they are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Count the number of digits to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of each decimal.
* Move the decimal that many places to the \_\_\_\_\_\_\_\_\_\_\_\_ of the final product!

**Example 1:** Find the product for each of the following. Show all work!

**Example 2:** Find each product. Show all work!

**Example 3:** After the orchestra completed its program, there was a party to allow the patrons to mingle with the musicians. Lyra's Catering provided the food, drinks, and service for the party. There were one hundred ninety-three guests. Lyra charges $22.00 per guest for food and $10.00 per guest for drinks. To that she adds $3.98 per guest for service. What was Lyra's total bill for catering the party?

**You Try!** Our economy has begun to affect the price of gas. Anthony put twenty-two gallons of premium gas in his truck. Exxon Gas charges $3.99 per gallon for premium gas and $3.51 per gallon for regular gas. How much money did Anthony spend on gas?

**Dividing Decimals** – Tips to remember!

**Division :** Ways to Write it!

 or  or 

* Move the decimal point in the divisor (outside number) to the \_\_\_\_\_\_\_\_\_\_ to make it a whole number.
* Move the decimal point in the dividend (inside number) to the \_\_\_\_\_\_\_\_\_\_\_\_ the same number of places.
* Divide. Add \_\_\_\_\_\_\_\_\_ until there is no remainder or the numbers \_\_\_\_\_\_\_\_\_\_\_.
* Move the decimal point \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from its new location.

**Example 4:** Find the quotient of each. Show all work!

1. 26992 ÷ 2.8
2. 4.41 ÷ 9
3. 37.98 / 0.9
4. 
5. 
6. 

**Example 5:** Jennifer was hungry. She looked in the pantry but there was no food. There was no food in the refrigerator. She looked under her bed where she often kept cookies but only found one empty cookie jar. Well, she would have to buy something. She took $4.62 out of her hiding place and walked to the store. She wanted as many sixty-six cent candy bars as she could get. How many candy bars can she buy?

**Example 6:** A chemistry experiment requires a salt solution. You have just dissolved 4.5 g of NaCl (salt) in 125 ml of water. What is the final concentration (in g/ml) of your salt solution? Round your answer to the nearest thousandth.

**You Try!** Mr. Bloop dissolved 4.3 grams of sugar in 126 ml of water. What was the final concentration of sugar (in g/ml)? Round your answer to the nearest ten-thousandth.