

Name: _____

Period: _____

Date: _____

Math Unit 2: Fractions and Decimals**Lesson 2.5- Multiplying Decimals (Day 1)****SWBAT:****Paraphrase:****Essential Question:** How can you multiply multi-digit numbers?

Example 1

$$\begin{array}{r} 435 \\ \times 6 \\ \hline 2610 \end{array}$$

Multiply each digit in 435 by 6, one at a time.

Your Turn

$$\begin{array}{r} 375 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 286 \\ \times 3 \\ \hline \end{array}$$

Example 2

$$\begin{array}{r} 621 \\ \times 14 \\ \hline 2484 \\ + 6210 \\ \hline 8694 \end{array}$$

Multiply each digit in 621 by 4, like in Example 1. Next, multiply each digit in 621 by 1. Since the 1 is in the tens place, we need to add a '0' in the ones place before we start multiplying. Add the two products together to get your final answer.

Your Turn

$$\begin{array}{r} 534 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 856 \\ \times 38 \\ \hline \end{array}$$

Example 3

$$\begin{array}{r} 116 \\ \times 335 \\ \hline 580 \\ 3480 \\ + 34800 \\ \hline 38860 \end{array}$$

Multiply each digit in 116 by 5, like in Example 1. Next, multiply each digit in 116 by 3. Since the 3 is in the tens place, we need to add a '0' in the ones place, like in Example 2. We then must multiply every digit in 116 by the final 3. Since this is in the hundreds place, we need to add two '0's, one in the ones place and one in the tens place. Add the three products together to get your final answer.

Your Turn	$\begin{array}{r} 791 \\ \times 272 \\ \hline \end{array}$ $\begin{array}{r} 124 \\ \times 620 \\ \hline \end{array}$
Let's Practice	<p>1) Construction paper packs have 525 sheets of paper per pack. You buy 7 packs. How many sheets of paper do you have in total?</p> <p>2) A school lunch contains 12 chicken nuggets. 137 students buy the lunch. What is the total number of chicken nuggets served?</p> <p>3) A movie was shown in 754 theaters across the country. If each theater held an average of 220 people, how many people saw the movie?</p> <p>4) Forests are being cut at a rate of 100 acres per minute. How many acres per hour is this?</p>
Notes / Questions	