Lesson Objective: Round decimals to the nearest whole number, tenth, or hundredth.

Vocabulary Box

tenths – The largest decimal place value; 1 whole = 10 tenths. Example: In the decimal 2.739, the digit 7 is in the tenths place. It has a value of 7 tenths, or 0.7.

hundredths – The second largest decimal place value; 1 whole = 100 hundredths. Example: In the decimal 2.739, the digit 3 is in the hundredths place. It has a value of 3 hundredths, or 0.03.
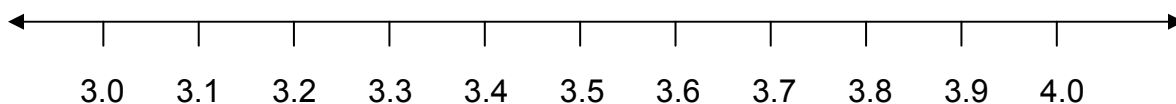
thousandths – The third largest decimal place value; 1 whole = 1,000 thousandths. Example: In the decimal 2.739, the digit 9 is in the thousandths place. It has a value of 9 thousandths, or 0.009.
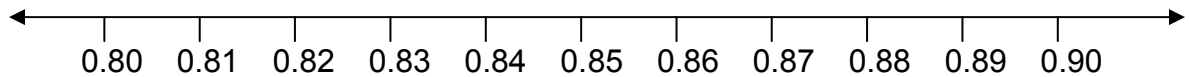
Guided Practice

Directions: Complete the following practice problems. Your teacher will review the answers. Make sure you show all your work.

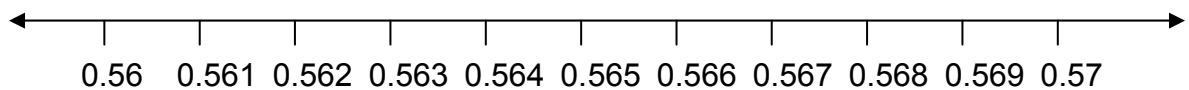I. Use the number lines to round each decimal. You may work with a partner.

3.0   3.1   3.2   3.3   3.4   3.5   3.6   3.7   3.8   3.9   4.0

Round to the nearest one or whole number:

1.   3.8

2.   3.5

3.   3.3

```
|←——|——|——|——|——|——|——|——|——|——|——→|
    0.80  0.81  0.82  0.83  0.84  0.85  0.86  0.87  0.88  0.89  0.90
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Round to the nearest tenth:

1.   0.85

2.   0.82

3.   0.86

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|←——|——|——|——|——|——|——|——|——|——|——→|
    0.56  0.561 0.562 0.563 0.564 0.565 0.566 0.567 0.568 0.569 0.57
```

Round to the nearest hundredth:

1.   0.564

2.   0.569

3.   0.565

II. Use place value and rounding rules to round each decimal. You may work with a partner.

Round to the nearest one, or whole number:

1.   0.72

2.   4.29

3.   12.541

Round to the nearest tenth:

1.   3.65

2.   0.291

3.   4.058

III. Use place value and rounding rules to round each decimal to the nearest hundredth. Please work independently.

1.   0.162

2.   5.374

3.   9.058

Summary/Closure

A. Vocabulary Words

Directions: Complete the chart by writing the place value of the bold digit in each decimal. Then, write the value of that digit. The first problem has been completed as an example.

	Number	Place Value	Value
1.	7.**3**6	tenths	0.3
2.	1**5**.79		
3.	0.2**8**		
4.	0.64**2**		
5.	31.6**9**		
6.	1**7**.4		
7.	35.8**1**4		
8.	2.04**6**		

B. Summarize What We Learned Today

Write a decimal in which the greatest place value is ones and the least place value is thousandths. Then, explain how to round that decimal to the nearest one, tenth, and hundredth. You will use this explanation as a personal reminder.

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Vocabulary Box

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thousandths — The third largest decimal place value; 1 whole = 1,000 thousandths. Example: In the decimal 2.739, the digit 9 is in the thousandths place. It has a value of 9 thousandths, or 0.009.

Independent Practice

Directions: Complete the following practice problems on your own. Your teacher will review the answers. Make sure you show all your work.

I. Round each decimal to the nearest whole number.

1. 5.604   2. 0.392   3. 20.57

II. Round each decimal to the nearest tenth.

1. 0.479   2. 2.63   3. 9.527

III. Round each decimal to the nearest hundredth.

1. 3.628   2. 0.719   3. 12.645

IV. Round each decimal to the place value that has a **bold** digit.

1. 0.8**4**9   2. 2**7**.362   3. 0.2**5**1

4. 10**9**.6   5. 5.**3**81   6. 1.5**9**9

BONUS?

Directions: Write a decimal that makes each sentence true.

1. _____ rounded to the nearest one is 4.

2. _____ rounded to the nearest hundredth is 1.62.

3. _____ rounded to the nearest tenth is 0.5.

4. _____ rounded to the nearest hundredth is 0.38.

5. _____ rounded to the nearest tenth is 9.7.

Problem Solving

Directions: Use problem-solving strategies to solve the word problems.

The advertisement shows the prices of some items on sale at Toy City. All prices include tax.

TOY CITY

Yo-yo
$1.79

Checkers
$5.75

Bag of Marbles
$2.19

Bubbles
$0.78

Baseball Glove
$13.89

I. Sam bought a yo-yo and a bag of marbles at Toy City. How much did Sam spend, altogether? Round your answer to the nearest dollar.

1. First, find the total cost of the items Sam bought.

2. Then, round the total cost to the nearest dollar.

3. Finally, write your answer in a complete sentence, using words from the problem.

II. Shaneeka bought a game of checkers and a jar of bubbles. How much did Shaneeka spend in all? Round your answer to the nearest dime. Remember to write your answer in a complete sentence.

III. Diego bought a baseball glove. He paid for it with a $20 bill. How much change did Diego receive? Round your answer to the nearest dollar.

What I Know

Directions: Use what you know about rounding decimals to answer each question.

1. What is 14.758 rounded to the nearest one?

2. What is 7.642 rounded to the nearest tenth?

3. What is 0.273 rounded to the nearest hundredth?

Lesson Objective: Multiply a decimal by a decimal, in the vertical form, with factors to the tenths or hundredths.

Vocabulary Box

regroup – Exchange amounts of equal value to rename a number. Examples: 14 ones can be regrouped as 1 ten and 4 ones because 14 = 10 + 4. 4 tens and 2 ones can be regrouped as 42 ones because 40 + 2 = 42.

partial products – The smaller products you get when you multiply each place value of a multi-digit number. Example: $14 \times 3 = (3 \times 4) + (3 \times 10) = 12 + 30 = 42$. In this problem, 12 and 30 are the two partial products.

Guided Practice

Directions: Complete the following practice problems. Your teacher will review the answers. Make sure you show all your work.

I. Work with a partner to find each product. Remember to include the decimal point.

1.
$$\begin{array}{r} 0.7 \\ \times 0.9 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 6.4 \\ \times 0.3 \\ \hline \end{array}$$

II. Rewrite each problem, vertically, by lining up the decimal points, and then find the product. You may work with a partner.

1. 0.65×0.18

2. 1.9×0.27

III. Rewrite each problem, vertically, by lining up the decimal points, and then find the product. Please work independently.

1. 5.8×0.4

2. 0.75×0.99

Summary/Closure

A. Vocabulary Words

Directions: Use the words in the box below to label the parts of the problem.

factor	partial product	product

$$
\begin{array}{r}
3.8 \\
\times 1.5 \\
\hline
190 \\
+380 \\
\hline
5.70
\end{array}
$$
_____
_____
_____
_____
_____

Directions: Fill in the blank with the correct word.

_____means to exchange amounts of equal value to rename a number.

B. Summarize What We Learned Today

Write and solve an example problem that involves multiplying two decimals in vertical form. Explain how you solved the problem. You will use this explanation as a personal reminder.