## 6th Grade Common Core Unit #4: Decimals

Resources: Big Ideas Chapter 2 Common Core Standards: 6.NS.3

Main Focus: Fluently add, subtract, multiply, and divide decimals using the standard algorithm.

Number	Learning Targets	Common Core Standard	Resources
1	I can add and subtract decimals	6.NS.3	2.4
2	I can multiply decimals using the traditional algorithm.	6.NS.3	2.5
3	I can divide decimals using the traditional algorithm.	6.NS.3	2.6

#### My Practice:

Number	Pre-test:	Exit slip scores	Day #2 Homework	Extra Targeted Practice	Post-test:
1	/6				/12
2	/4				/8
3	/4				/6

1.)	After the post-test, I still need to focus on learning targets:							
2.)	My plan to master these learning targets will be: Circle all that apply							
	Reread my notes	Watch tutorials	Practice on Khan	Do extra menu items				
	Other:							

3.) How will I know that I mastered these learning targets?

#### Section 2.4: Adding and Subtracting Decimals Notes

Objective: Students will add and subtract decimals.

			Place	Value Ch	art		/
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	ten thousands	9///	/ / /	/ / 2	ten-thousandths	millionths was and the	
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4 4	/ 39/3	12/2/	ठ । स । ५	4/4/2	/ 2/2	75/	
			•				

Write six thousand five hundred thirty two and four hundred ninety one thousandths into the chart above.

When adding and subtracting decimals, line up the decimals first

Examples:

<u>Examples</u> :	
1.) 8.13 + 2.76	2.) 1.45 + 23.7
3.) 5.08 - 3.74	4.) 15.9 - 3.17

5a.) Your meal at the school cafeteria cost \$3.40. Your friend's meal cost \$3.90. How much was your total meal?

5b.) You pay for both meals with a \$10 bill. How much change do you receive?

## Adding and Subtracting Decimals Day 1 HW

#### Add.

1.	6.58 + 2.436	2.	1.8 + 4.307	3.	11.415 + 15.32
3					

#### Subtract.

7.	5.64 - 2.31	8.	9.385 - 5.216	9.	9.75 - 6.523
					9

**13.**It costs \$5.52 to park in parking lot A and \$3.75 to park in parking lot B. How much more does it cost to park in parking lot A?

## 2.4

## Adding and Subtracting Decimals Day 2 HW

Add.

1.	9.241 + 3.64	2.	6.72 + 9.8	3.	14.068 + 12.337

Subtract.

7.	8.79 – 2.53	8.	7.328 - 6.54	9.	12.026 - 7.51
				0	

**13.** The large bottle of nasal spray is 9.46 centimeters tall. The small bottle is 5.29 centimeters tall. **How much shorter** is the small bottle than the large bottle?

**14.** At the snack shop you buy a bag of popcorn for \$1.30 and a Gatorade for \$1.75. How much do you **spend in all**?

#### Section 2.5: Multiplying Decimals Students Notes

Objective: Students will multiply decimals.

Multiplying decimals by whole numbers:

-Multiply the numbers

-Place the decimals

 $\begin{array}{c|c}
13.91 \\
\times 7 \\
97.37
\end{array}$  2 decimal places

6.218 × 3 decimal places

Multiplying decimals by decimals:

-Multiply the numbers

-Place the decimals

4.7 1 6 <− 3 decimal places × 0.2 <− + 1 decimal place

0.9432 <- 4 decimal places

### Examples:

1.) 13.91 × 7	2.) 3.45 × 0.6
3.) 4.8 × 7.2	4.) 0.7 × 0.5

5.) You buy 4 cans of soda for \$1.28 per soda. How much did you spend on soda?

## Place the decimal point in the product for #1, 2, and 3

1. 
$$2.6 \times 7.9 \over 2054$$

2. 
$$8.83$$
 $\times 0.42$ 
 $\overline{37086}$ 

3. 
$$9.44$$
 $\times 1.95$ 
 $184080$ 

#### Multiply.

<b>4.</b> 3.2 × 6	<b>5.</b> 5.1 × 8	<b>6.</b> 0.34 × 14
7. 8.4 × 3	8. 6.2 × 7	<b>9.</b> 1.3 × 3

**13.** Describe and correct the error in the solution.

$$\times \frac{0.0004}{\times 80032}$$

## **Multiplying Decimals HW Day 2**

1.)	0.48 × 1.5	2.) 7.4 x 5	3.)	9.5 x 16
4.)	2.84 x 21	5.) 0.042 x 4	6.)	0.035 × 7
7.)	10 x 0.065	14.) A bamboo plant grows 1.25 inches in a day. How much does it grow in 7 days?		

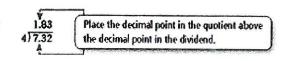
#### Section 2.6: Dividing Decimals Student Notes

Objective: Students will divide decimals.

#### Dividing Decimals by Whole Numbers:

-Place the decimal point in the same place directly above the original problem.

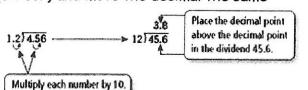
-Divide the numbers



#### Dividing Decimals by Decimals:

- -Move the decimal away from the outside number (divisor) and move the decimal the same number of spaces on the inside number (dividend)
- -Place the decimal point in the same place directly 1.274.56. above the original problem.

-Divide the numbers



<u>Examples</u> :	
1.) 7.6 ÷ 4	2.) 4.38 ÷ 12
3.) 18.2 ÷ 1.4	4.) 2.6 ÷ 0.5

5.) Three friends split a bag of chips. The total cost is \$4.80. How much does each person pay?

# 2.6 Dividing Decimals HW Day 1

Divide.

**4.** 
$$0.7)1.4$$

**5.** 
$$0.5)2.65$$

**6.** 
$$0.6)24.6$$

**8.** 
$$53.6 \div 0.8$$

**9.** 
$$0.256 \div 4$$

10. Describe and correct the error in finding the quotient.

$$\begin{array}{c} \times & \frac{2.7}{5)1.35} \\ & \frac{-10}{35} \\ & \frac{-35}{0} \end{array}$$

# 2.6

### Practice DAY 2 HOMEWORK

For use after Lesson 2.6

Divide. Check your answer.

**1.** 
$$0.3)18.6$$

**2.** 
$$0.6)46.8$$

**5.** 
$$0.096 \div 0.8$$

- **13.** It costs \$859.32 to have a school dance.
- a. How many tickets must be sold to cover the cost?(Hint: you will need to round your answer)

## School Dance

October 28th Tickets \$8

Name_	Unit	s	Date			
	Math 6 <sup>th</sup> : Unit 4 D	ecimals Study Guid	le			
			Total Score:/13			
	ns: Carefully read and follow the direction					
WORK	and write your answers on the lines provid	ed. Don't torget th	e correct units!			
Total:						
2 points LT1	Solve.					
Score:	1.) 2.48 + 1.27 2.)	1.3 + 1.19				
			1.)			
			2.)			
2 points LT1	Solve.					
Score:	3.) 17.52 - 12.3 4.)	9.50 - 7.14	3.)			
			4.)			
			4.)			
2 points LT2	Use the table to answer the questions.					
Score:		Item	Cost			
Ocor c.		Apple	\$0.95			
	p.	Water bottle	\$1.30			
	5a) What is the total cost of an apple and a bottle of water?					
			5a.)			
	5b.) You decide to only buy a water bottle and give the cashier \$2.00. How much change do you get back?					
			5b.)			
2 points	Solve.					
LT2	6.) 0.3 · 0.9 7.)	4.3 · 3.5				
Score:						
			6.)			
			7.)			

1 point	8.) Find the area of the rectangle.	
LT2		
	Land Control of the C	
Score:	1.32	
		,
	0.7	•
	0.7	8.)
4	0) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 111
1 point LT2	9.) You buy four boxes of cereal for \$2.51 per cereal box. I	now much did you spend on cereal?
LIE		
Score:		
Score.		
		9.)
2 mainta	40) 22:04 40 525:25	
2 points	10.) $2.2 \div 0.4$ 11.) $5.25 \div 2.5$	
LT3		
Score:		
ocore.		
		10.)
		11.)
1 points	12.) Three friends buy a dessert for \$9.24 and split the cos	st. How much do they each pay?
LT3		
Score:		
4		12.)

#### Answers:

1.) 3.75	2.) 2.49	3.) 5.22	4.) 2.36
5a.) \$2.25	5b.) \$0.70	6.) 0.27	7.) 15.05
8.) 0.924	9.) \$10.04	10.) 5.5	11.) 2.1
12.) \$3.08			