Name		Period		
	Unit 5 Base 10	0 Week of 3/16/2020		
Learning Targ	ets from 6 th Grade Common C	ore State Standards:		
Lesson 11 Div. I can use whole nutlesson 12 Div. I know he quotient. I can divi. I can exp. Lesson 13 Div. I can find. I can exp. find a qu. Lesson 14 Us. I can use. This Week's V. decimal place value.	viding numbers that result in declaring division to find the quotient imber. Viding decimals by whole number ow multiplying both the dividender a decimal by a whole number of a decimal by decimals by decimals of the quotient of two decimals. If the quotient of two decimals of the quotient of two decimals of the quotient of two decimals. In the dividender of the quotient of two decimals of the quotient of two decimals. In the quotient of two decimals of the quotient of two decimals. In the quotient of two decimals of the quotient of two decimals. In the quotient of two decimals of the quotient of two decimals. In the quotient of two decimals of the quotient of two decimals of the quotient of two decimals. In the quotient of two decimals of the quotient of two decimals of the quotient of two decimals. In the quotient of two decimals of the quotient of two decimals.	ecimals ent of two whole numbers when the ers d and the divisor by the same factor er. y a whole number in terms of equal and divisor by the same power of 1. Solve Problems eation, and division on decimals to a	or affects the al-sized grou Can help n solve proble addition	ps. ne ms.
Day	due the following day. Class work—All in Spiral	Homework	Complete	Correct
Monday	using iPad U5 L11 Dividing numbers that result in decimals	U5 L11 HW Problems—Look carefully you get to skip some	/4	/10
Tuesday	U5 L12 Dividing decimals by whole numbers	U5 L12 HW Problems, 5b is the Challenge	/4	/11
Wednesday	U5 L13 Dividing decimals by decimals	U5 L13 HW Problems	/4	/14
Thursday	Quiz on Division	None	None	
Friday	Catch up and Odds and Ends	None have a great spring break	None	
		Total	/12	
		Quality	/4	
		Total	/16	
it again and w	rite down the information you h	know how to complete a problem have, draw a picture, or write a que You can also come in and get help	estion you ha	ave,

Work is *thorough* with *detailed* explanations (2 pts)

Homework is corrected (with additions needed) in a different color pen/pencil (2 pts)

NAME

DATE

PERIOD

10

Unit 5, Lesson 11: Dividing Numbers that Result in Decimals

1. Use long division to show that the fraction and decimal in each pair are equal.



a. $\frac{3}{4}$ and 0.75

b. $\frac{3}{50}$ and 0.06



/2

2. Mai walked $\frac{1}{8}$ of a 30-mile walking trail. How many miles did Mai walk? Explain or show your reasoning.



3. Use long division to find each quotient. Write your answer as a decimal. Choose 2!

b.
$$216 \div 5$$

c.
$$1,988 \div 8$$



DATE

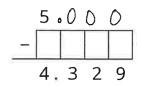
PERIOD

- 4. To find the decimal of $\frac{9}{25}$, Tyler reasoned: " $\frac{9}{25}$ is equivalent to $\frac{18}{50}$ and to $\frac{36}{100}$, so the decimal of $\frac{9}{25}$ is 0.36."
 - a. Use long division to show that Tyler is correct.
- b. Is the decimal of $\frac{18}{50}$ also 0.36? Use long division to support your answer.

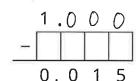
12

5. Complete the calculations so that each shows the correct difference. Choose 2!

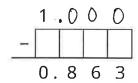
a.



h



c.



(from Unit 5, Lesson 4)

/2

6. Use the equation $124 \cdot 15 = 1,860$ and what you know about fractions, decimals, and place value to explain how to place the decimal point when you compute $(1.24) \cdot (0.15)$.

(from Unit 5, Lesson 6)

1

DATE

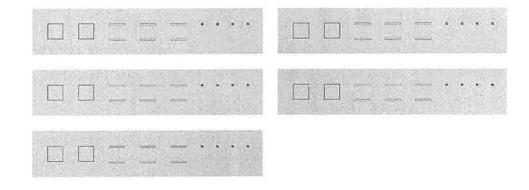
PERIOD

Unit 5, Lesson 12: Dividing Decimals by Whole Numbers

1. Here is a diagram representing a base-ten number. The large rectangle represents a unit that is 10 times the value of the square. The square represents a unit that is 10 times the value of the small rectangle.



Here is a diagram showing the number being divided into 5 equal groups.



- a. If a large rectangle represents 1,000, what division problem did the second diagram show? What is its answer?
- b. If a large rectangle represents 100, what division problem did the second diagram show? What is its answer?
- c. If a large rectangle represents 10, what division problem did the second diagram show? What is its answer?



2. a. Explain why all of these expressions have the same value.

$$4500 \div 90$$

$$450 \div 9$$

$$45 \div 0.9$$

$$4.5 \div 0.09$$

- b. What is the common value?
- 3. Use long division to find each quotient.



NAME

DATE

PERIOD

a. $7.89 \div 2$

b. $39.54 \div 3$

c. $0.176 \div 5$

13

4. Four students set up a lemonade stand. At the end of the day, their profit is \$17.52. How much money do they each have when the profit is split equally? Show or explain your reasoning.

/

5. a. A standard sheet of paper in the United States is 11 inches long and 8.5 inches wide. Each inch is 2.54 centimeters. How long and wide is a standard sheet of paper in centimeters?

/2

Challes Standard sheet of paper in Europe is 21.0 cm wide and 29.7 cm long. Which has the greater area, the standard sheet of paper in the United States or the standard sheet of paper in Europe? Explain your reasoning.

(from Unit 5, Lesson 8)

NAME

DATE

PERIOD

14

Unit 5, Lesson 13: Dividing Decimals by Decimals

- 1. A student said, "To find the value of $109.2 \div 6$, I can divide 1,092 by 60."
 - a. Do you agree with this statement? Explain your reasoning.
- b. Calculate the quotient of $109.2 \div 6$ using any method of your choice.

/2

2. Here is how Han found $31.59 \div 13$:

$$\begin{array}{r|rrr}
 & 2 & 4 & 3 \\
1 & 3 & 3 & 1 & 5 & 9 \\
 & -2 & 6 & & & \\
\hline
 & 5 & 5 & & & \\
 & -5 & 2 & & & \\
\hline
 & & 3 & 9 & & \\
 & & -3 & 9 & & \\
\hline
 & & 0 & & & \\
\end{array}$$

- a. At the second step, Han subtracts 52 from 55. How do you know that these numbers represent tenths?
- b. At the third step, Han subtracts 39 from 39. How do you know that these numbers represent hundredths?

13

c. Check that Han's answer is correct by calculating the product of 2.43 and 13.

- 3. a. Write two division expressions that have the same value as $61.12 \div 3.2$.
 - b. Find the value of $61.12 \div 3.2$. Show your reasoning.

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	AΛ

DATE

PERIOD

- 4. A bag of pennies weighs 5.1 kilogram. Each penny weighs 2.5 grams. About how many pennies are in the bag? Think divide or myltiply?
 - A. 20
 - B. 200
 - C. 2,000
 - D. 20,000

/1

5. Find each difference. If you get stuck, consider drawing a diagram.

SKip

SKIP

a. 2.5 - 1.6

b. 0.72 - 0.4

 \bigcirc 11.3 - 1.75

(d)73 - 1.3

/2

(from Unit 5, Lesson 3)

- 6. Plant B is $6\frac{2}{3}$ inches tall. Plant C is $4\frac{4}{15}$ inches tall. Complete the sentences and show your reasoning.
 - a. Plant C is _____ times as tall as Plant B.
 - b. Plant C is _____ inches _____ (taller or shorter) than Plant B.

2

(from Unit 4, Lesson 12)

- 7. At a school, 460 of the students walk to school.
 - a. The number of students who take public transit is 20% of the number of students who walk. How many students take public transit?
 - b. The number of students who bike to school is 5% of the number of students who walk. How many students bike to school?