Super-Journal Week 2:5

Every night, you should be reading at least 30 minutes of whatever book you have checked out from your assigned reading list. Tape or glue (but do not staple) this sheet into your Super-Journal on the left-side page. Fill in the table below *every day* by recording the required data.

Day	Title	Start Pg.	End Pg.	Parent Sign.
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
Sunday				

On the right-side page of your Super-Journal, answer one of the questions below throughout the week. Be sure that the questions you choose to answer go with the appropriate type of book (Fiction or Nonfiction). The Super-Journal is due on the first day after the weekend (usually Monday).

FICTION

1. You will be making 5 whole page illustrations based off of 5 separate quotes from your reading. Each illustration should take an entire page. Make sure that you write the quote, and the page number you got your quote from at the bottom of each illustration.

NONFICTION

1. What is this text about?

2. Summarize the main ideas in 5 sentences.

RL.3.7/RI.1.2

Name _____ Date _____

Multiplying Decimals
Problem Solving

Solve each problem.

Mike is in college studying to become a nurse. In many of his laboratory classes, he must measure quantities and record data in his notebooks.

1. Mike performed blood tests using 5 test tubes. Each tube contained 12.73 milliliters (ml) of blood. How much blood did he test total?

   He tested _____ ml total.

2. Mike's lab partner was using a mixture of water and iodine in 8 beakers. Each beaker had 7.012 milliliters of the mixture in it. How much of the mixture did he have altogether?

   He had _____ ml altogether.

3. Mike wrapped a cloth bandage around a patient's arm, turning the bandage 15 times before making it secure. He used 9.12 cm each time he turned the bandage. How long was the bandage he used?

   The bandage was about _____ cm.

4. In chemistry class, Mike took a package of salt and split the contents evenly into 9 experimental groups. Each group weighed 0.07 kilograms (kg). How much salt was in the original package?

   There was _____ kg of salt in the original package.

5. In his dietary nutrition class, Mike studied nutrition labels on food. According to one candy bar's label, the candy bar contained 12.4 grams of fat. If 1 gram of fat contains 9.4 calories, how many calories from fat are in the candy bar?

   There are _____ calories from fat.

6. In biology, Mike viewed a specimen under a powerful microscope. The specimen was 0.021 cm wide. The microscope magnified the specimen 100 times larger. How wide did the specimen appear when it was viewed under the microscope?

   The specimen appeared to be _____ cm wide under the microscope.

Name _____ Date _____

Multiplying Decimals: Multiplying Decimals with Zeros in the Product

Multiply **1.05 x 0.03**

Step 1
Multiply as you would with whole numbers.

```
  1
 1.05
x 0.03
  315
```

Step 2
Count the number of decimal places. Then place the decimal point in your answer. Write zeros to show the extra places.

```
  1
 1.05  <-- 2 decimal places
x 0.03 <-- 2 decimal places
0.0315 <-- 4 decimal places needed in answer,
           but only 3 numbers
```

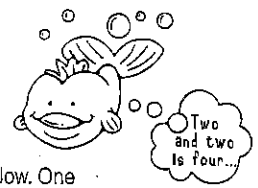
Add a zero as a placeholder.

Multiply.

1.	0.091 x 0.02	0.0072 x 0.07	0.0043 x 0.9	0.025 x 0.04
2.	0.33 x 0.0053	0.14 x 0.0048	0.305 x 0.006	0.45 x 0.007
3.	0.165 x 0.08	9.7 x 0.002	0.025 x 0.6	0.057 x 0.43
4.	0.092 x 0.086	0.125 x .023	0.0047 x 0.83	0.309 x 0.09
5.	0.103 x 0.005	0.017 x 0.17	0.0096 x 0.37	0.031 x 0.022

Name Date

Multiplying Decimals: Puzzle Practice



Why are fish so good at math?

To find out, multiply. Then match each letter to its answer in the blanks below. One answer is not used. Remember to write the extra zeros when necessary.

L 0.033 x 0.2	Y 0.33 x 0.2	L 0.47 x 0.2	A 0.47 x 0.02
O 0.006 x 0.34	S 0.06 x 0.34	I 6 x 0.034	C 6 x 0.34
W 0.098 x 0.55	N 0.098 x 0.055	A 0.082 x 0.063	O 0.82 x 0.063
S 0.345 x 0.07	A 0.532 x 0.06	R 1.75 x .005	H 0.262 x .004

They are _____ _____ _____ _____ _____ _____

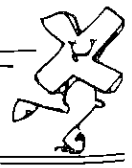
0.0094 0.094 0.0539 0.005166 0.066 0.0204

_____ _____ _____

0.204 0.00539 0.03192

_____ _____ _____ _____ _____ _____

0.02415 2.04 0.001048 0.05166 0.00204 0.094



Name Date

Multiplying Decimals: Multiplying a Decimal by a Decimal

Remember: Multiply as you would with whole numbers. Add up the number of decimal places in both factors. The answer will have the total number of decimal places in the factors.

Multiply **1.4 x 0.2**

1.4 ← **1** decimal place
x 0.2 ← **1** decimal place
0.28 ← **2** decimal places

Multiply **2.53 x 3.1**

2.53 ← **2** decimal places
x 3.1 ← **1** decimal place
253
+ 7590
7.843 ← **3** decimal places in all

Multiply.

1.	0.7 x 0.4	0.3 x 0.5	0.54 x 0.6	2.9 x 5.4
2.	8.4 x 0.6	0.7 x 0.12	0.9 x 0.2	0.12 x 0.22
3.	56.1 x 2.1	0.45 x 0.9	0.724 x 0.6	0.46 x 0.87
4.	4.95 x 0.3	0.2 x 7.8	9.12 x 4.3	65.1 x 0.25
5.	3.21 x 0.8	4.7 x 12.5	10.16 x 2.21	24.99 x 0.52

Name Date

Multiplying Decimals

Multiply **32 x 0.43**

Step 1
Multiply the factors as if the decimal point weren't there.

```
  32
x 0.43
  96
+ 1280
 1376
```

Step 2
Count the number of decimal places.
Then put the decimal point in the product.

```
  32  ←  0 decimal places
x 0.43 ←  2 decimal places
  96
+ 1280
13.76 ←  2 decimal places in all
```

Remember: Count the decimal places to the right of the decimal.

Find each product.

1.	0.4 x 6	0.9 x 3	0.12 x 7	4.9 x 8
2.	4.5 x 3	2.81 x 4	1.76 x 5	3.03 x 6
3.	2.8 x 34	6.2 x 13	3.7 x 65	0.17 x 14
4.	0.52 x 26	0.208 x 21	0.836 x 52	0.92 x 27
5.	9.909 x 54	302.6 x 83	3.208 x 91	5.634 x 49

Name Date

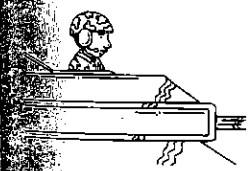
Multiplication and Division Practice

How's Business?

S	243 x 8 = _____	D	442 x 64 = _____	T	5,432 ÷ 55 = _____
O	834 ÷ 8 = _____	W	496 ÷ 74 = _____	N	989 x 62 = _____
E	9 x 6,418 = _____	J	221 x 628 = _____	C	42,777 ÷ 18 = _____
Y	289 ÷ 72 = _____	U	2,720 ÷ 6 = _____	R	527 x 398 = _____
K	53 x 28 = _____	F	487 x 12 = _____	I	56,859 ÷ 550 = _____
A	2,566 ÷ 42 = _____	L	420 x 24 = _____		

Each person below is answering the question, "How's business?" To decode their answers, do the exercises above and find your answer in the code below. Each time the answer appears in the code, write the letter of that exercise above it. Keep working until you have decoded all three responses.

Soldier: "Mine is _____



138,788 453 R2 1,944 98 R42

5,844 103 R209 61,318 57,762

98 R42 61 R4 61,318 1,484 1,944 ."

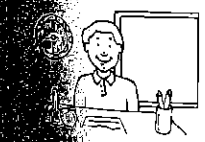
Steak House Chef: "Mine is _____

6 R52 104 R2 209,746 1,944 57,762

28,288 103 R209 1,944

4 R1 57,762 61 R4 209,746 ."

Teacher: "Mine is _____



2,376 R9 10,080 61 R4 1,944 1,944 4 R1 ."

Name _____ Date _____

Multiplying Decimals

Problem Solving—Westward Ho

Solve each problem.

1. A covered wagon on the Oregon Trail could travel about 2.5 miles per hour on flat terrain. About how many miles could it travel in 9 hours?

   The covered wagon could travel _____ miles.

2. Pony Express riders of the Old West normally carried about 1,000 letters, each weighing 0.0375 pounds. How many pounds of letters did the Pony Express riders carry?

   The Pony Express rider carried _____ pounds of letters.

3. In 1860, gingham cloth sold for $0.25 a yard. Mrs. Olsen bought 16.5 yards to make clothes for her family. How much did she spend on cloth?

   Mrs. Olsen spent $_____ on cloth.

4. In 1863 in Fort Laramie, Wyoming, travelers could buy beef jerky at the trading post for $0.35 per pound. How much would a 16-pound box of jerky cost?

   A 16-pound box of jerky would cost _____.

5. In 1838, the Olsen family traveled through Ohio by canal in 18.5 hours. The Parley Company of travelers took 2.3 times as long to go the same distance over land with their wagons. How long did it take the Parley Company?

   It took the Parley Company _____ hours to go the same distance.

6. In 1865, pioneer travelers could buy wheat for $0.12 a pound at merchant stops along the Oregon Trail. The Olsens had a barrel that could hold 19.25 pounds of wheat. How much did it cost to fill the barrel?

   It cost $_____ to fill the barrel with wheat.

7. Each wagon in the Parley Company wagon train was about 3.65 meters long. If 10 wagons traveled end to end, how long would the wagon train be?

   The wagon train would be _____ meters long.

8. If a wagon wheel travels 0.02 km in one revolution, how many km will the wheel have traveled after 1,190 revolutions?

   It will have traveled _____ km.

Name _____ Date _____

Multiplying Decimals

Use mental math to multiply a decimal by 10, 100, or 1,000.

To multiply by 10, move the decimal point **one** place to the right.	To multiply by 100, move the decimal point **two** places to the right.	To multiply by 1,000, move the decimal point **three** places to the right.
0.4	**0.40**	**0.400**
10 x 0.4 = 4	100 x 0.4 = 40	1,000 x 0.4 = 400

Find each product. Use mental math.

1.	10 x 0.06 =	100 x 0.06 =	1,000 x 0.06 =	10 x 0.6 =
2.	10 x 4.3 =	100 x 4.3 =	1,000 x 4.3 =	0.43 x 100 =
3.	0.653 x 1,000 =	1.09 x 10 =	21.3 x 10 =	10 x 0.007 =
4.	1,000 x 0.046 =	0.46 x 1,000 =	0.46 x 100 =	0.46 x 10 =
5.	1,000 x 3.9 =	0.0045 x 10 =	100 x 0.03 =	12.6 x 1,000 =
6.	1.234 x 100 =	0.11 x 1,000 =	0.11 x 10,000 =	0.11 x 100,000 =

Product Pointers

Write the product.

A.

$$\begin{array}{r} 0.12 \\ \times\ 2.4 \\ \hline 48 \\ 240 \\ \hline 0.288 \end{array}$$

2 decimal places
1 decimal place
3 decimal places

$$\begin{array}{r} 3.69 \\ \times\ 1.5 \\ \hline \end{array}$$

B.

$$\begin{array}{r} 2.1 \\ \times\ 3.3 \\ \hline \end{array} \qquad \begin{array}{r} 4.03 \\ \times\ 1.1 \\ \hline \end{array} \qquad \begin{array}{r} 2.45 \\ \times\ 0.5 \\ \hline \end{array} \qquad \begin{array}{r} 3.12 \\ \times\ 1.6 \\ \hline \end{array}$$

C.

$$\begin{array}{r} 0.02 \\ \times\ 4.4 \\ \hline \end{array} \qquad \begin{array}{r} 3.75 \\ \times\ 4.3 \\ \hline \end{array} \qquad \begin{array}{r} 4.75 \\ \times\ 1.2 \\ \hline \end{array} \qquad \begin{array}{r} 4.51 \\ \times\ 0.6 \\ \hline \end{array}$$

D.

$$\begin{array}{r} 0.21 \\ \times\ 0.3 \\ \hline \end{array} \qquad \begin{array}{r} 4.32 \\ \times\ 0.7 \\ \hline \end{array} \qquad \begin{array}{r} 1.25 \\ \times\ 0.45 \\ \hline \end{array} \qquad \begin{array}{r} 7.66 \\ \times\ 0.55 \\ \hline \end{array}$$

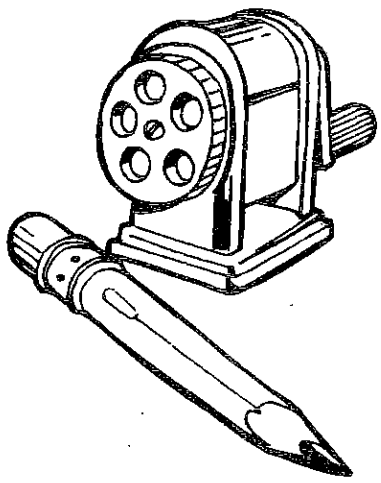
E. What do you know about the product if one of the factors is less than one?

_____

Name _____ Multiplying decimals

Make Your Point

Find each product.



A.

9.67 (2 decimal places)
x 1.8 (1 decimal place)
7736
9670
17.406 (3 decimal places)

1.2
x 0.06

4.5
x 2.7

B.

0.75
x 9.3

7.3
x 0.08

0.2
x 0.3

5.03
x 7.1

C.

4.24
x 7.2

24.6
x 3.5

6.9
x 0.64

18.5
x 1.6

D.

7.6
x 0.8

27.43
x 2.3

5.43
x 8.6

8.31
x 9.4

E. What rule can you write about the placement of the decimal point in the product?

_____

_____

Name _____ Subtracting decimals

Decimal Differences

Subtract.

A.

4 11 1 5.25 − 3.87 1.38	0.85 − 0.68	$51.04 − 22.63	70. − 16.95

B.

$143.79 − 88.81	26.85 − 15.97	71.35 − 4.661	636.336 − 173.854

C.

$73.21 − 56.56	54.135 − 27.95	$95.41 − 8.72	21.06 − 4.79

Rewrite the problems vertically. Then find the differences.

D. 3.74 – 1.88

2 16 1
3.74
− 1.88
1.86

52.67 – 24.7

57.19 – 19.88

E. 30.29 – 19.5

2.718 – 0.884

92.16 – 34.423

F. 7.506 – 4.968

$164.78 – $59.99

Name _____ Dividing by 2-digit numbers

Division Den

Divide.

A. $73\overline{)4,929}$ $43\overline{)6,721}$ $76\overline{)5,891}$ $36\overline{)33,199}$

67 R38
-438
549
-511
38

B. $49\overline{)3,257}$ $44\overline{)5,023}$ $51\overline{)8,392}$ $95\overline{)\$33.25}$

C. $35\overline{)11,166}$ $36\overline{)\$14.76}$ $96\overline{)41,966}$ $23\overline{)14,763}$

D. $52\overline{)\$37.96}$ $53\overline{)23,065}$ $92\overline{)\$113.16}$