



**GRADES 1 to 12
DAILY LESSON LOG**

School:		Grade Level:	VI	
Teacher:		Learning Area:	MATHEMATICS	
Teaching Dates and Time:	SEPTEMBER 26-30, 2022 (WEEK 6)		Quarter:	1 ST QUARTER

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
I.OBJECTIVES						
A.Content Standards	The learner demonstrates understanding of the four fundamental operations involving fractions and decimals.					
B.Performance Standards	The learner is able to apply the four fundamental operations involving fractions and decimals in mathematical problems and real-life.					
C. Learning Competencies	Divides: a. whole numbers by decimals up to 2 decimal places and vice versa b. decimals/mixed decimals up to 2 decimal places					
II.CONTENT	Dividing Whole Numbers by Decimals Up to 2 Decimal Places After going through this module, you are expected to: 1. divide whole numbers by decimals up to 2 decimal places; (M6NS-Ig-116.3) and 2. solve routine and non-routine problems involving division of whole numbers by decimals up to 2 decimal places including money using appropriate problem-solving strategies and tools. (M6NS-Ii-120.2)		Multiplying Mixed Decimals with Factors Up to 2 Decimal Places After going through this module, you are expected to: Multiplying Mixed Decimals with Factors Up to		Multiplying Decimals and Mixed Decimals with Factors Up to 2 Decimal Places After going through this module, you are expected to: Multiplying Decimals and Mixed Decimals with Factors Up to 2 Decimal Places	WEEKLY TEST
III. LEARNING RESOURCES						
A.References						
1.Teacher's Guide Pages						
2.Learner's Materials Pages						
3.Textbook Pages						
4. Additional Materials from Learning Resources (LR) Portal						
B.Other Learning Resources						
IV. PROCEDURES						
	What's In	What's More	What I Can Do	Assessment	WEEKLY TEST	

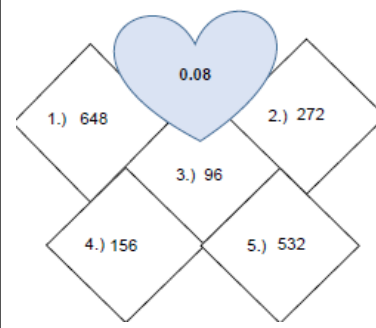
Divide the given decimals. Choose the letter of the correct answer and write it on your answer sheet.

- _____ 1.) $0.9 \div 3 =$
 A. 0.3 B. 0.03 C. 0.003 D. 0.0003
- _____ 2.) $0.8 \div 16 =$
 A. 0.0005 B. 0.005 C. 0.05 D. 0.5
- _____ 3.) $0.8 \div 25 =$
 A. 0.031 B. 0.032 C. 0.033 D. 0.034
- _____ 4.) $0.6 \div 15 =$
 A. 0.01 B. 0.02 C. 0.03 D. 0.04
- _____ 5.) $0.7 \div 35 =$
 A. 2 B. 0.2 C. 0.02 D. 0.002

I'll give you another example to serve as your guide before answering the next exercise.

Given: $105 \div 0.35 = N$
 Solution: $0.35 \overline{)105.00}$

A. Divide the whole numbers inside the rhombuses by the decimal number inside the heart. Write your solution on your answer sheet.



B. Read and solve. Use the appropriate strategy. Show your solution on your answer sheet. Two raincoats and four umbrellas cost ₱861.50. If one umbrella costs ₱90.25, how much does one raincoat cost?

A. Find the value of N. Write your solutions in your answer sheet.

- 1.) $48 \div 0.06 = N$
- 2.) $72 \div 0.24 = N$
- 3.) $200 \div 0.08 = N$
- 4.) $63 \div 0.07 = N$
- 5.) $165 \div 0.11 = N$

B. Read, analyze, and solve. Label your answers.

- 6.) Twinkle received a ₱100-peso bill from her ninang. She went to the bank to exchange the amount for ₱0.25. How many pieces of 25 centavos will the teller give her?
- 7.) Dianne bought six blouses and five skirts at ₱1 066.00. If one blouse costs ₱105.25, how much is the cost of one skirt?
- 8.) What is halfway between 20 and 33.74?

A. Solve the following division equations on your answer sheet.

- | | |
|----------------------------|-----------------------------|
| 1.) $0.23 \overline{)69}$ | 6.) $0.18 \overline{)540}$ |
| 2.) $0.21 \overline{)84}$ | 7.) $0.12 \overline{)132}$ |
| 3.) $0.08 \overline{)720}$ | 8.) $0.40 \overline{)240}$ |
| 4.) $0.03 \overline{)654}$ | 9.) $0.17 \overline{)85}$ |
| 5.) $0.09 \overline{)108}$ | 10.) $0.33 \overline{)165}$ |

B. Read and solve. Use the appropriate strategy. Show your solution on your answer sheet.

Rico went to a bookstore. He bought six pieces of Mathematics pocket dictionaries and eight pieces of English-Filipino dictionaries which cost ₱680.60. If one piece of Mathematics pocket dictionary costs ₱45.50, how much does one piece of English-Filipino dictionary cost?

What's New
 Study and analyze the problem below.

What I Have Learned
 How do you divide whole numbers by decimals up to 2 places?

Mrs. Gomez received a box of canned goods weighing 112 kilograms. She plans to place these into smaller boxes weighing 0.16 kilogram each. How many boxes does she need?

To find out the number of boxes needed, do the following steps:

Step 1: Write the equation based on the problem.

$$\text{divisor} \rightarrow 0.16 \overline{) 112} \leftarrow \text{dividend}$$

Step 2: Multiply the divisor by a power of 10 or simply move the decimal point to the right. (0.16 now becomes 16)

$$0.16 \overline{) 112}$$

Step 3: Do the same with the dividend. Since the dividend is a whole number, you will add two zeroes. (112 now becomes 11 200)

$$0.16 \overline{) 112.00}$$

Step 4: Divide as in dividing whole numbers.

$$\begin{array}{r} 700 \text{ ← quotient} \\ 016 \overline{) 11200} \\ \underline{112} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

So, Mrs. Gomez needs 700 small boxes to materialize her plan.

For you to further learn the skill of dividing whole numbers by decimals up to 2 decimal places, study the problem below.

Rose bought four rulers and some markers that cost ₱154.50. If one ruler costs ₱11.25 while one marker costs ₱36.50, how many markers did she buy?

Understand:

1. What is asked?

Answer: The number of markers Rose bought

2. What facts are given?

Answer: ₱154.50 – total cost of four rulers and some markers

₱11.25 – cost of one ruler

₱36.50 – cost of one marker

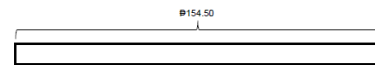
Plan: What operations will you use to solve the problem? Decide for a strategy.

Strategy: The Block Model Strategy will help you solve this problem.

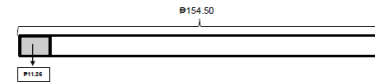
Solve: Show your solution.

Applying the strategy:

Step 1: Draw a block model to represent the total cost of the rulers and markers.



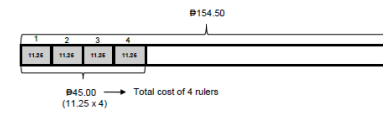
Step 2: Cut a portion to represent the price of 1 ruler.



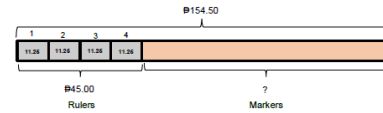
□ To divide whole numbers by decimals up to 2 decimal places:

1. multiply the divisor with a power of ten or move the decimal point to the right to make it a whole number;
2. move also the decimal places in the dividend as many places you move in the divisor. Add zeroes as placeholders, if needed; and
3. divide as in dividing whole numbers.

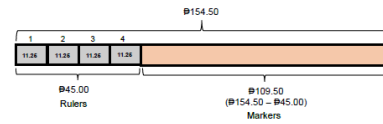
Step 3: Cut portions representing the price of all the 4 rulers. ($\text{P}11.25 \times 4 = \text{P}45.00$)



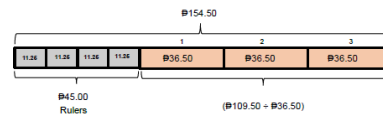
Step 4: The remaining part of the block model represents the cost of the markers.



Step 5: Subtract the total cost of the rulers from the total cost of the rulers and markers.



Step 6: Divide $\text{P}109.50$ by $\text{P}36.50$ which is the unit price of one marker to get the number of markers Rose bought.



So, Rose bought three markers.

Check: To check the answer, multiply the cost of one ruler which is $\text{P}11.25$ to 4. Multiply also the cost of one marker which is $\text{P}36.50$ to 3. Then, add the total cost of the rulers and total cost of the markers. If it is equal to $\text{P}154.50$, thus, your answer is correct.

$\text{P}11.25 \times 4 = \text{P}45.00$ total cost of 4 rulers

$\text{P}36.50 \times 3 = \text{P}109.50$ total cost of 3 markers

$\text{P}45.00 + \text{P}109.50 = \text{P}154.50$ total cost of 4 rulers and 3 markers

Assessment

Find the product of the following decimal numbers. Write your answers on your answer sheet.

- | | |
|---|--|
| 1.) $0.70 \times 0.39 =$ <input type="text"/> | 6.) $0.49 \times 0.30 =$ <input type="text"/> |
| 2.) $0.34 \times 0.26 =$ <input type="text"/> | 7.) $0.76 \times 0.34 =$ <input type="text"/> |
| 3.) $0.09 \times 0.16 =$ <input type="text"/> | 8.) $0.89 \times 0.43 =$ <input type="text"/> |
| 4.) $0.23 \times 0.12 =$ <input type="text"/> | 9.) $0.98 \times 0.32 =$ <input type="text"/> |
| 5.) $0.47 \times 0.06 =$ <input type="text"/> | 10.) $0.79 \times 0.19 =$ <input type="text"/> |

What is It

To find for Dino's weight, do the following steps:

Step 1: Write the decimals in column.

$$\begin{array}{r} 32.53 \text{ ← multiplicand} \\ \times 1.02 \text{ ← multiplier} \\ \hline \end{array}$$

Step 2: Multiply 2 to all the digits in the multiplicand from right to left to get the first partial product.

$$\begin{array}{r} 32.53 \\ \times 1.02 \\ \hline 65.06 \text{ ← 1st partial product} \end{array}$$

Step 3: Multiply 0 to all the digits in the multiplicand from right to left to get the second partial product.

$$\begin{array}{r} 32.53 \\ \times 1.02 \\ \hline 000.0 \text{ ← 2nd partial product} \\ 65.06 \text{ ← 1st partial product} \end{array}$$

Step 4: Multiply 1 to all the digits in the multiplicand to get the third partial product.

$$\begin{array}{r} 32.53 \\ \times 1.02 \\ \hline 3253 \text{ ← 3rd partial product} \\ 000.0 \text{ ← 2nd partial product} \\ 65.06 \text{ ← 1st partial product} \end{array}$$

Step 5: Add the three partial products to get the final product. Then, count the number of decimal places in the factors to determine the number of decimal places in the final answer.

(Note: There are four decimal places in the factors, so there must be four decimal places in the final product.)

$$\begin{array}{r} 32.53 \\ \times 1.02 \\ \hline 33.1806 \text{ ← final product} \end{array}$$

Now that you are already familiar with the steps on how to multiply mixed decimals with factors up to 2 decimal places, you can move on studying the word problem below.

Alisha sells fruit shakes. One morning, she went to a fruit stand to buy fruits for her business. She decided to buy papayas which are sold at ₱18.25 per kilogram. How much will she pay for 2.4 kilograms of papayas?

What's More

A. Multiply each decimal in the input column with 0.75. Write the product in the output column. Copy first the table on your paper.

I'll do number 1 for you.

Given $\Rightarrow 5.16 \times 0.75 = ?$

$$\begin{array}{r} 5.16 \\ \times 0.75 \\ \hline 2580 \\ + 3612 \\ \hline 3.8700 \text{ ← product} \end{array}$$

Now, do numbers 2 to 6.

No.	INPUT	OUTPUT
1.	5.16	3.8700
2.	6.12	
3.	7.63	
4.	1.86	
5.	3.69	
6.	4.26	

B. Read and solve. Write your solution with label in the final answer on your answer sheet.

Jen saves ₱5.25 every Monday, ₱8.35 every Tuesday, ₱6.15 every Wednesday, ₱4.65 every Thursday, and ₱10.30 every Friday from her daily school allowance for two weeks. From these savings, she plans to buy a sling bag that costs ₱215.00. How much more must she save after two weeks?

What I Have Learned

To multiply decimals and mixed decimals with factors up to 2 decimal places do the following:

To solve the problem above, follow these steps:

Understand:

1. What is asked?

Answer: Cost of 2.4 kilograms of papayas

2. What are the given facts?

Answer:

₱18.75 – cost of a kilo of papaya

2.4 – kilograms of papaya to be paid by Akisha

Plan:

1. What operation will you use to solve the problem?

Answer: Multiplication

2. How will you transform the problem into a number sentence?

Answer: $₱18.25 \times 2.4 = N$

Solve:

$$\begin{array}{r}
 11.1 \\
 1.1 \\
 31.2 \\
 18.25 \\
 \hline
 \times 2.4 \\
 \hline
 73.00 \\
 + 365.0 \\
 \hline
 43.800 \rightarrow \text{final product}
 \end{array}$$

Check:

$$\begin{array}{r}
 1 \text{ kilogram of papaya} = \quad \text{₱}18.25 \\
 + 1 \text{ kilogram of papaya} = \quad + \text{₱}18.25 \\
 \hline
 0.4 \text{ kilogram of papaya} = \quad \text{₱}7.30 \\
 \hline
 2.4 \qquad \qquad \qquad \text{₱}43.80
 \end{array}$$

So, Akisha will pay ₱43.80 for 2.4 kilograms of papayas.

Here is another problem that will help tickle your mind.

Mara sells candy bars and chocolate bars. The cost of each candy bar is ₱3.25. Each chocolate bar costs ₱5.00 more than twice each candy bar. If Harold bought equal number of candy bars and chocolate bars and paid ₱59.00, how many chocolate bars did he buy?

In order to be guided, follow the steps below.

Understand:

1. What is asked?

Answer: How many chocolate bars did he buy?

2. What facts are given?

Answer:

The cost of each candy bar is ₱3.25.

Each chocolate bar costs ₱5.00 more than twice each candy bar.

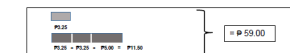
The total amount paid for the equal number of candy bars and chocolate bars bought is ₱59.00.

Plan: What operations will you use to solve the problem? Decide for a strategy.

Strategy: The repeated addition using Block Model Strategy will help you solve this problem.

Solve: Show your solution.

Applying the strategy:



Knowing that a candy bar which costs ₱3.25 and a chocolate bar which costs ₱11.50 altogether cost ₱14.75, how many of them will be equal to ₱59?

1. Write the decimals in column aligning the digits at the right.
2. Multiply from the rightmost digit of the multiplier to the digits of the multiplicand to get the first and second partial products.
3. Sum up the partial products.
4. Count the number of decimal places in the factors. This will be the number of decimal places in the final product. Start counting from right to left.

What I Can Do

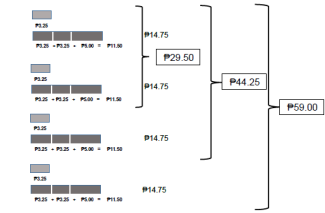
A. Multiply the following. Write your solutions on your answer sheet and place the decimal point in the products correctly.

$$\begin{array}{lll}
 1.) \begin{array}{r} 6.34 \\ \times 0.28 \\ \hline \end{array} & 2.) \begin{array}{r} 7.91 \\ \times 0.57 \\ \hline \end{array} & 3.) \begin{array}{r} 21.64 \\ \times 0.23 \\ \hline \end{array} \\
 4.) \begin{array}{r} 8.49 \\ \times 0.07 \\ \hline \end{array} & 5.) \begin{array}{r} 2.96 \\ \times 0.38 \\ \hline \end{array} &
 \end{array}$$

B. Read and solve the following problems on your answer sheet. Label your final answers.

- 6.) Mrs. Nicolas has 2.54 meters of lace. If 0.78 is the part of the lace used in edging the sides of the table cloth, find the length of the lace used?
- 7.) Trina bought 4 kg of sugar at ₱36.50 per kilogram and 3 kg of flour at ₱17.55 per kilogram. How much change will she receive from her ₱200 bill?

Study the illustration below.



Answer: Harold bought 4 chocolate bars which is also equal to the number of candy bars.

Check: To check your answer, you can apply repeated addition.

$$\begin{aligned}
 &P3.25 \rightarrow \text{cost of a candy bar} \\
 &P3.25 + P3.25 + P5.00 = P11.50 \rightarrow \text{cost of a chocolate bar} \\
 &P14.75 \rightarrow \text{total cost of the candy bar and chocolate bar}
 \end{aligned}$$

So, $P14.75 + P14.75 + P14.75 + P14.75 = P59.00$.

What's More

A. Multiply the decimal at the center with the decimals around it. Write your solutions on your answer sheet.

Assessment

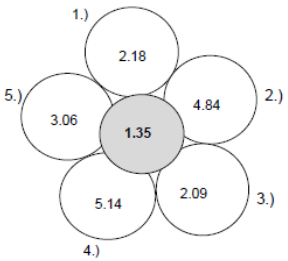
A. Find the product. Write first the given in column and write your solutions on your answer sheet.

- 1.) $0.56 \times 4.15 = \square$
- 2.) $3.45 \times 0.26 = \square$
- 3.) $9.22 \times 0.54 = \square$
- 4.) $4.38 \times 0.19 = \square$
- 5.) $0.66 \times 3.93 = \square$

B. Multiply. Place the decimal point in the product correctly.

- 6.) $\begin{array}{r} 7.96 \\ \times 0.27 \\ \hline \end{array}$
- 7.) $\begin{array}{r} 8.15 \\ \times 0.52 \\ \hline \end{array}$
- 8.) $\begin{array}{r} 12.67 \\ \times 0.04 \\ \hline \end{array}$
- 9.) $\begin{array}{r} 5.08 \\ \times 0.29 \\ \hline \end{array}$
- 10.) $\begin{array}{r} 8.74 \\ \times 0.53 \\ \hline \end{array}$

C. Read, analyze, and solve. Write your solution on your answer sheet with label in the final answer.

			<p>Example: $4.07 \times 1.35 = ?$</p> $\begin{array}{r} 4.07 \\ \times 1.35 \\ \hline 2035 \\ 1221 \\ + 407 \\ \hline 5.4945 \end{array}$  <p>B. Read and solve using the appropriate strategy. Write your solution on your answer sheet.</p> <p>A drugstore sells a piece of face mask at ₱17.90. The price of a bottle of 100-ml alcohol is ₱12.25 more than the price of a piece of face mask. If Carla paid ₱480.50 for the equal number of face masks to the number of bottles of 100-ml alcohol, how many of these items did she buy?</p>	<p>Kaye's allowance is ₱800 a week. She spent ₱95.00 for transportation, ₱475.50 for meals and snacks, and ₱50.25 for the photocopy of handouts. How much money can she save in 2 weeks?</p>	
			<p>What I Have Learned</p> <p>To multiply a mixed decimal by a mixed decimal with factors up to 2 decimal places do the following:</p> <ol style="list-style-type: none"> 1. Write the decimals in column aligning the digits at the right. 2. Multiply from the rightmost digit of the multiplier to the digits of the multiplicand to get the first, second and third partial products. 		

3. Sum up the partial products.
 4. Count the number of decimal places in the factors. This will be the number of decimal places in the final product. Start counting from right to left.

What I Can Do

A. Multiply the following and place the decimal point in the product correctly. Write your solutions on your paper.

- 1.)
$$\begin{array}{r} 4.42 \\ \times 2.16 \\ \hline \end{array}$$
 2.)
$$\begin{array}{r} 2.48 \\ \times 1.63 \\ \hline \end{array}$$
 3.)
$$\begin{array}{r} 15.47 \\ \times 5.32 \\ \hline \end{array}$$
- 4.)
$$\begin{array}{r} 3.97 \\ \times 1.02 \\ \hline \end{array}$$
 5.)
$$\begin{array}{r} 7.40 \\ \times 5.24 \\ \hline \end{array}$$

B. Read, analyze and solve. Write your solutions with label on your answer sheet.
 6.) If one meter of cloth costs ₱65.60, how much will 1.75 meter cost?
 7.) In a vegetable stand, a kilogram of okra is sold at ₱40.50. A kilogram of squash is sold ₱5.00 less than the price of a kilogram of okra. If Aling Doray paid the vegetable vendor ₱228.00 for the equal kilograms of okra to the kilograms of squash she bought, how many kilograms of each kind of vegetable did she buy?

ASSESSMENT

			<p>A. Find the product. Write first the given in column and write your solutions on your answer sheet.</p> <p>1) $2.34 \times 1.23 = \square$ 4) $6.02 \times 5.21 = \square$</p> <p>2) $3.52 \times 2.31 = \square$ 5) $7.42 \times 3.12 = \square$</p> <p>3) $4.25 \times 1.54 = \square$</p> <p>B. Multiply the following. Place the decimal point in the product correctly and write your solutions on your answer sheet.</p> <p>6) 9.08 7) 7.15 8) 2.67 $\times 1.74$ $\times 3.96$ $\times 7.03$</p> <p>9) 31.05 10) 6.13 $\times 5.62$ $\times 10.12$</p> <p>C. Read, analyze and solve. Write your solution with label on your answer sheet. Mang Ambo is a meat vendor. He sells a kilogram of pork at ₱180.00 and a kilogram of beef which is ₱15.25 more than the price of a kilogram of pork. If Dindo gave Mang Ambo ₱1 125.75 for the equal kilograms of pork to the kilograms of beef, how many kilograms of each kind of meat did he buy?</p>		
V. REMARKS					
VI. REFLECTIONS					
A.No.of learners who earned 80% in the evaluation					
B. No.of learners who requires additional acts.for remediation who scored below 80%					
C. Did the remedial lessons work? No.of learners who caught up with the lessons					
D. No.of learners who continue to require remediation					

E. Which of my teaching strategies worked well? Why did this work?	
F. What difficulties did I encounter which my principal/supervisor can help me solve?	
G. What innovations or localized materials did I used/discover which I wish to share with other teachers?	