



# **Mathematics 4 Microlearning Module**

**QUARTER 2 – Module 3** Solving Multi-step Problems Involving One or More Operations Including Problems Involving Money.





**REGION XII - DIVISION OF SULTAN KUDARAT** 

## Mathematics 4 Microlearning Module (MLM) Quarter 2 – Module 3: Solving Multi-step Problems Involving One or More Operations Including Problems Involving Money. First Edition, 2024

Republic Act 8293, Section 176 states that, "No copyright shall subsist in any work of the Government of the Philippines." However, obtaining prior approval from the government agency or office where the work originated is required for the commercial use of such work. This agency or office may, among other things, impose as a condition the payment of royalties.

Materials borrowed for this module (e.g., songs, stories, poems, images, brand names, trademarks, etc.) are the property of their respective copyright owners. The publisher and authors do not assert ownership or representation over them.

## Published by the Department of Education- RO XII, Division of Sultan Kudarat

Development Team				
Writer	:	Jonalyn A. Castillano		
Editor	:	Clyte Mee M. Espida		
Evaluator	:	Marlou B. Faeldonia		
Illustrator	:	Jonalyn A. Castillano		
Cover Art Designer:		Jann Mark P. Oriel		
Management Team:		Crispin A. Soliven Jr., CESE – Schools Division Superintendent		
		Meilrose B. Peralta EdD – Asst. Schools Division Superintendent		
		Ismael M. Ambalgan – Chief, CID		
		Sheryl L. Osano – EPS, LRMS		
		Rudolfo B. Bermudo, Jr. EdD – EPS, Mathematics		

#### Printed in the Philippines by

### Department of Education – Region XII, Division of Sultan Kudarat

Office Address: Kenram, Isulan, Sultan Kudarat Telefax: 064-471-1007 E-mail Address: depedsk.r12@deped.gov.ph

## **MICROLEARNING MODULE**

Name:	Grade & Sec:	Score:	
Subject:	Quarter: <u>2</u>	MLM No. <u>3</u>	
Teacher:			
Competency: Solve multi-step problems involving one or more of the fou operations with results of calculations up to 1 000 000, including problems involving money			

# A. Look Back!

Directions. Read and answer each problem. Write your answer in the line.

1. Each of the eighteen towns in a province was given 876 seedlings to plant.

About how many seedlings were given to all the towns?

2. A jeepney travels 31 200 meters per hour. About how far can it go in 13 hours?

# **B. What's New?**

Directions. Fill in the blank with the correct answer.

- A barangay distributed P1 500 worth of food items to each of the 63 families affected by the typhoon in Tacurong City. How much worth of food did the barangay give in total?
  - a. Asked: \_\_\_\_\_
  - b. Clue word: \_\_\_\_\_
  - c. Equation: \_\_\_\_\_
  - d. Complete answer: \_\_\_\_\_

# C. What Is It?

Let's try this.

Diego earns P275 a day by selling banana cue in the town plaza. He gives P180 to his mother and saves the rest. How much does he save in 5 days?

This is a two-step word problem. Follow these steps in solving it.

Step 1. Understand the problem.

• Answer these questions about the problem.

- a. What does Diego sell?
- b. What does he do with the money he earns?
- Answer these questions to analyze the problems.
  - a. What is asked?
    - the amount he saves in 5 days
  - b. What are the given facts?
    - P275 earnings in a day, P180 for mother, 5 days
  - c. What clue words will help you solve the problems?
    - saves the rest

Step 2. Plan what to do.

• Draw a picture of the problem.



- What is the hidden question?
  - amount saved in a day
- Decide what operation to use.
  - Subtraction and multiplication
- Write the equation for the hidden question.
  - ▶ P275 P180 = \_\_\_\_\_
- Write the equation for the problem.
  - ➤ (P275 P180) x 5 = \_\_\_\_\_

Step 3. Solve the problem.

• Show the solution.

P275	P95
- P180	_x 5
P95	P475

• Complete answer: Diego saves P475 in 5 days

Step 4. Check the answer.

Check to see if the answer is correct.
 Diego saves P95 for one day. Adding P95 five times will give you P475.
 You can also use the distributive property of multiplication over addition to check.

```
5 \ge P95 = (5 \ge P90) + (5 \ge P5)
= P450 + P25
= P475
```

The answer is correct.

# D. Let's Try!

Direction. Read the problem carefully. Answer each question that follows.

1.) A group of tourists arrived at their destination in five buses and one jeepney. Each bus carried 55 passengers, and the jeepney carried 20 passengers. How many tourists were there in total?

## 1. What vehicles were used by the tourists?

2. How many jeepneys and buses were used?

- 3. What is asked in the problem?
- 4. What are the given facts?
- 5. What is the clue word?
- 6. What is the hidden question?
- 7. What operation will be used?
- 8. What is the equation for the hidden question?
- 9. What is the equation for the problem?
- 10. What is the complete answer?

# E. Let's Evaluate

Directions. Read and solve each problem. Write the answer in the space provided.

1. Mr. Reyes bought a television worth P14 000 on an installment basis.

After paying the down payment, he agreed to pay the balance in 6 months at

P1 200 per month. How much down payment did he pay?

- a. Asked: \_\_\_\_\_
- b. Given facts: \_\_\_\_\_
- c. Hidden question: \_\_\_\_\_\_d. Equation: \_\_\_\_\_\_
- e. Complete answer: \_\_\_\_\_

2. Mang Crispin bought 6 crates of ripe mangoes and 8 crates of unripe mangoes. If each crate costs P475, how much did he pay for the mangoes?

- a. Asked: \_\_\_\_\_
- b. Given facts: \_\_\_\_\_
- c. Hidden question: \_\_\_\_\_
- d. Equation: \_\_\_\_\_
- e. Complete answer: \_\_\_\_\_

3. A classroom has 25 students. Each student needs 5 notebooks, and each notebook costs P35. The school decided to cover the total cost. How much will the school pay for the notebooks?

a. Asked:	
b. Given facts:	
c. Hidden question:	
d. Equation:	
e. Complete answer:	

# **Challenge!**

Directions. Read and solve each problem. Write the answer in the space provided.

- 1.) Maria went shopping for school supplies. She bought 3 packs of pens, each pack cost P76. She also bought 5 notebooks, each costing P42, and a backpack for 399. If she paid with a P1 000 bill, how much change did she receive?
- 2.) A farmer harvested 6 fields of corn. Each field yielded 120 bushels of corn. He sold 400 bushels and kept the rest for his farm. If he plans to use the remaining bushels to feed his livestock and each livestock needs 10 bushels, how many livestock can he feed with the corn left?

# **F. Reference**

Creag, Herminia C. 2022. Real–Life Mathematics 4 Second Edition. Quezon City, Philippines: ABIVA Publishing House, Inc.

#### DISCLAIMER

This Microlearning Module has been developed by DepEd -Division of Sultan Kudarat for educational purposes only. It is designed to supplement classroom instruction and should not be used as the sole source of information. Teachers are encouraged to exercise their professional discretion and tailor the content to suit their students' individual needs.

This resource is the exclusive property of DepEd-Division of Sultan Kudarat and is accessible to enrolled learners solely for academic purposes, at no cost. Any reproduction or conversion of this material in any form is strictly prohibited.

# **REGION XII - DIVISION OF SULTAN KUDARAT**

## **Answer Key**

#### Math 4 Quarter 2, Module 3

#### A. Look back!

- 1. About 18 000 seedlings.
- 2. About 300 000 meters.

## B. What's new?

1.

a. How much worth of food did the barangay give?

b. Worth

- c. ₱ 1 500 x 63 = \_\_\_\_
- d. ₱ 94 500 worth of food items.

## d. Let's Try!

- 1. The vehicles used by the tourists were buses and jeepneys.
- 2. There are 5 buses and 1 jeepney.
- 3. How many tourists were there in all?
- 4. The given facts are 55 persons in each bus and 20 persons in the jeepney.
- 5. The word clues are each and how many tourists were there in all.
- 6. The hidden facts are 5 buses, 1 jeepney, and the total number of tourists.
- 7. Addition and multiplication
- 8. 55 x 5 = \_\_\_\_\_
  - 20 x 1 = \_\_\_\_\_
- 9. 55 x 5 + 20 x 1 = \_\_\_\_\_
- 10. There are 295 tourists in all.

#### E. Let's Evaluate

- 1. a. How much down payment did he pay?
  - b. ₱ 14 000, ₱ 1 200, 6 months
  - c. How much money is left after paying the down payment?
  - d. ₱ 14 000 6 x ₱ 1 200 = \_\_\_\_
  - e. The down payment was ₱ 6 800.
- 2. a. How much did he pay for all the mangoes?
  - b. 6 crates, 8 crates, and ₱ 475
  - c. How much was the cost of ripe and unripe mangoes?
  - d. 6 x ₱ 475 + 8 x ₱ 475 = \_\_
  - e. Mang Crispin paid ₱ 6 650 in all.
- 3. a. How much will the school pay for the notebooks?
  - b. 25 pupils, 5 notebooks each, and each cost P35
  - c. How much will the school pay for the notebooks?
  - d. 25 x 5 x 35 = \_
  - e. The school needs to pay P 4 375 in all.

# Challenge!

- 1.) Maria's change is ₱163
- 2.) 32 livestock can be fed out from the remaining bushels.