7

DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 1
Week
5

Learning Activity Sheet Mathematics Grade 7
Quarter 1: Week 5

This material is intended exclusively for the use of teachers in the implementation of the MATATAG K to 10 Curriculum. It aims to assist in delivering the curriculum content, standards, and lesson competencies.

Every care has been taken to ensure the accuracy of the information provided in this material. For inquiries or feedback, please call the Office of the Director of the Department of Education – National Capital Region via telephone number (02) 85229412 or send an email to ncr@deped.gov.ph.

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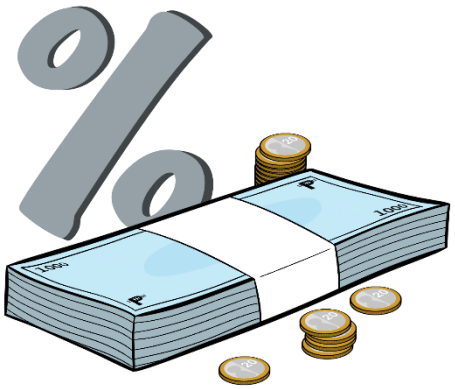
LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	5	**Day:**	**1**
Lesson Title/ Topic:	Number and Algebra Application of Percentages on Money Problems		
Name:		**Grade & Section:**	**7**

Component 1: (Lesson Short Review)



Activity 1: **INCREASE OR DECREASE!**

Objective(s):

1. define percentage, discount, and sale; and
2. solve money problems involving percentages, specifically discounts and sales.

Materials Needed: pen and paper/notebook.
Duration: 7 minutes
Directions: Categorize whether the situation shows a percentage increase or a percentage decrease, then provide reasons for every response. Check the column that corresponds to your answer. Write your answers on a clean sheet of paper.

SITUATION	PERCENTAGE INCREASE	PERCENTAGE DECREASE	REASON/S
1. prices of kilos of rice in the Philippines from 2021 to 2024			
2. the number of students who enroll in your school every year			
3. the number of vehicles between 2021 and 2022			
4. the heat index from April 20 to April 22 of this year			
5. the electric consumption between rainy and summer seasons			
6. the grades of a student who studies smarter			
7. the population in the Philippines from 2023 to 2024.			
8. the number of HIV-infected individuals in the Philippines			
9. the number of COVID cases after the vaccines were invented			
10. the class attendance from Week 1 to Week 2 of the current month			

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Check your answers, and then identify which ribbon matches your score.

ALL CORRECT EXCELLENT	9 CORRECT	8 CORRECT	LESS THAN 8 NEEDS PRACTICE

Guide Question:

1. About the situations above, how did you categorize the situation by percentage increase? What about a percentage decrease?

Activity 2: CONVERT ME NOW!

Directions: Convert each of the given decimals to percent and vice versa. Write your answers on a clean sheet of paper.

DECIMAL	PERCENT
0.12	**1.**
0.36	**2.**
1.27	**3.**
4.	45%
5.	23.2%

Check your answers, and then identify which ribbon matches your score.

ALL CORRECT EXCELLENT	4 CORRECT	LESS THAN 4 NEED PRACTICE

Guide Questions

1. Given the decimal, how do we convert it into percent?
2. Given the percentage, how do we convert it into decimal?

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Component 2: Lesson Purpose/Intention

The concept of percent increase and/or decrease is significant in financial literacy and creating a financial plan. Developing an understanding of percentages helps children become productive members of the family, schools, society, and the nation as a whole.

Component 3: Lesson Language Practice

Activity 3: ARRANGE ME!

Materials Needed: Worksheet, pen and paper, slide presentation.
Duration: 5 - 7 minutes

Directions: Arrange the jumbled letters below to form words related to today's lesson. Write your answers on a clean sheet of paper.

1. ISDCNTOU
2. ASESL
3. CEPNTER
4. ARTE
5. ONEMY
6. LESAS CIPRE

Questions:

1. How are these words related to each other?
2. Define/describe each.
3. How is it related to your daily activities?

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Component 4: Lesson Activity 4A & B

Activity 4: SALE! SALE! SALE!
Materials Needed: Worksheet, pen and paper, picture cutout, slide presentation.
Duration: 25 minutes

Directions: An online shopping platform offers discounts and sales on selected items. Find the sale price of the given items after the discount. Take note of the discount given to each item. Show your solution on a clean sheet of paper, and box your final answer. (Round your answer to the nearest hundredths, if necessary.)

1.	 20% off ₱ 199.00	4.	 SMART TV 50 Inch LED Extra Slim Television 30 % off ₱ 18,000.00
2.	Air Frier Touch 35% off ₱ 2,000.00 	5.	 LAPTOP 50 % off ₱ 13,799.00
3.	 ANDROID CELL PHONE 40% OFF ₱ 10,999.00	6.	 Black Action Camera 30% off ₱ 19,990.00

Guide Questions

1. How did you solve the discount on the items above?
2. What are the key elements needed to determine the sale price/s?
3. Share with your classmates what process you used to solve the sale price/s.

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Activity 5: DISCOUNT GALORE

Materials Needed: Worksheet, pen and paper, slide presentation.

Directions: Solve the following problems. Show your solution and box your final answer on a clean sheet of paper. (Round your answer to the nearest hundredths, if necessary.)

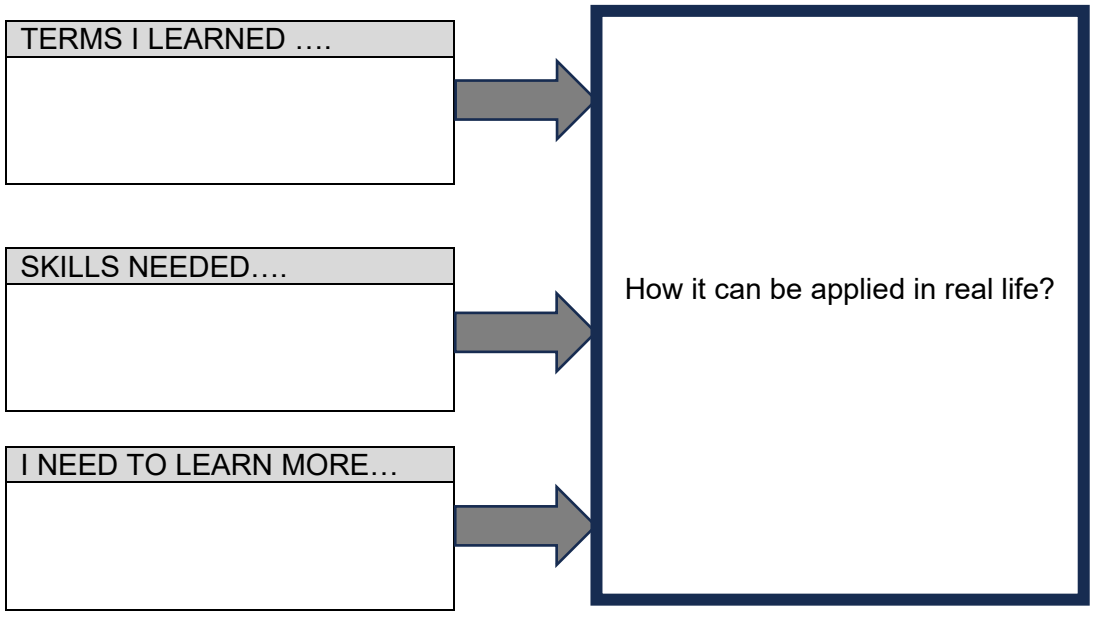
1. Aliyah receives a 30% discount on all the items she buys, which amounts to ₱ 1,800.00. How much will she pay the cashier?
2. Janelle bought a pair of shoes at ₱1,200. 00. How much would she save if she was given an 18% discount?
3. In an appliance store, a mini speaker is marked “10% off”.
   a. How much is the discount?
   b. What is the sale price of the mini speaker if it originally costs ₱ 1,030.00?
4. Emjay bought a motorcycle and had to pay ₱ 3,600.00 per month for 36 months. If she pays on time, she gets a 2.5% discount. How much will she pay each month if she pays on time?
5. You were invited by your friend to his birthday party. Going to the mall to buy a t-shirt as a gift, you are suddenly confused about the following options:
   (A) At Unique-La, a shirt costs 600 pesos with a 10% discount,
   (B) A H&A, a shirt costs 500 pesos with a 20% discount.
   Which store offers the better discount?

Component 5: Lesson Conclusion

Activity 6: HOW MANY PERCENT LEARNED?

Duration: 5-7 minutes

Directions: Complete the graphic organizer.



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Component 6: Evaluation

Activity 7: MARKDOWN MADNESS

Directions: Solve the following problems. Show your solution and box your final answer. (Round your answer to the nearest hundredths, if necessary.)

1. A cell phone costs ₱ 9,999.00 but you have to pay ₱ 8,998.00 if you want to buy 2 units. What is the discount rate?

2. The shopkeeper reduced the jacket price from ₱1,200.00 to ₱800.00. Find the discount rate he gave.

3. After giving a discount of 25% on a dress, it was sold for ₱1,425.00. Find the marked price of the dress.

4. A six-piece umbrella at a market costs 1,200 pesos with a 50% discount. The price, if sold individually, is 115 pesos. How much did you save when you bought in bulk the six umbrellas you needed for your friends?

Activity 8: LIMITED-TIME OFFER

Directions: Solve the following problems. Show your solution and box your final answer. (Round your answer to the nearest hundredths, if necessary.)

1. The price of a television set is ₱ 18,000.00. How much do you need to pay if you get a 12% discount?

2. One shirt costs ₱150.00. A customer will get a 15% discount if she buys four or more shirts.
   a. How much does he have to pay if he buys six shirts?
   b. How much discount will he get if he buys eight shirts?

3. A pack of 6 apples costs ₱ 180.00. The first five shop members who buy at least two packs will receive a 20% discount.
   a. How much will the first shop member who buys three packs pay?
   b. How much discount will the third shop member receive if he buys five packs?

Instructions: (To the facilitator)

Step 1 - Clearly explain the first step of the activity.

- Provide any necessary background info or context.
- Present tasks or questions that need to be addressed in this step.
- Include any specific guidelines.

Step 2 - Describe the next step, if applicable.

- Follow the same structure in Step 1 (if applicable).

Step 3 - Continue (if needed).

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Tasks/Questions: List specific tasks or questions that learners must address during the activity.

Additional Resources (Optional): Include any optional resources such as readings, videos, websites, or references that learners can explore for deeper understanding.

Assessment/Reflection:

- Indicate how the learner's understanding will be assessed based on the completed activity.
- Suggest reflection questions or prompts that learners may use to write about what they have learned.

Notes for Facilitators: Provide any notes, directions, or guidance for teachers or facilitators who will be conducting the activity.

Extension/Differentiation (if applicable): Suggest ways to extend the activity for advanced learners or to differentiate for various skill levels.

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	5	**Day:**	**2**
Lesson Title/ Topic:	Number and Algebra Application of Percentages on Money Problems		
Name:		**Grade & Section:**	**7**

Component 1: (Lesson Short Review)

Activity 1: **PERCENTAGE BASICS**

Objective(s):

1. define commission and sales tax.
2. solve money problems involving percentages, specifically on commission and sales tax.

Materials Needed: pen and paper/notebook, worksheet, calculator, and slide presentation.
Duration: 7 minutes
Directions: Read and analyze the problem carefully. Then, find each missing value. Write your answers in the space provided.

A. Finding the Percentage

1. Find 70% of 45. _____
2. Find 84% of 15. _____
3. What is 33% of 66? _____

B. Finding the Rate

4. What percent of 18 is 3? _____
5. 30 is what percent of 240? _____
6. 5 is what percent of 60? _____

C. Finding the Base

7. 6% of what number is 90? _____
8. 250 is 20% of what number? _____
9. 35 is 70% of what number? _____
10. 40% of what number is 200? _____

Guide Questions

- What basic operations are needed to answer the problems above?
- How can you distinguish a Percentage from a rate? Base to Rate?

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Component 2: (Lesson Purpose/Intention)

Once the activity is finished, the teacher will summarize the intended outcomes, emphasizing the differences between the concepts taught in the previous lesson and a more comprehensive discussion of the current lesson. The primary goal of this section of the lesson is to strengthen their understanding of computing percentages in practical situations, particularly about commission and sales tax, while also emphasizing their importance in more challenging contexts.

Component 3: Lesson Language Practice

Activity 3: ARRANGE ME!

Materials Needed: Worksheet, pen and paper, slide presentation.
Duration: 5 - 7 minutes

Directions: Arrange the jumbled letters below to form words related to our lesson today. Write your answers on a clean sheet of paper.

1. USCINDOT
2. KRAM PU
3. MSCIONIMSO
4. ESALS XAT
5. ALSE EPIRC
6. USCINDOT TRAE

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Component 4: Lesson Activity 4A & B

Activity 4: **LET'S COMPUTE!**

Materials Needed: Worksheet, pen and paper, picture cutout, slide presentation.
Duration: 25 minutes
Directions: Read the scenario carefully. The learner's task is to calculate the commission and sales tax. After they've done the computation, explain how they arrived at their answers in a few sentences.

Michael is a sales associate at a local electronics store, and his manager has assigned him a special project. His task is to assist customers in understanding the pricing of various electronic items. For every item sold, he earned a commission of 5%.

The manager asks Michael to perform the task:

The **commission** is calculated based on the item's total sale price before tax.

Task 1: Calculate the commission earned by a sales associate for selling a laptop with a sale price of ₱ 60,000.00

It is also stated that, for every electronic item sold, inclusive of 8% sales tax,

According to his manager:

Sales tax is applied to the item's total sale price after the commission has been calculated.

The manager asks Michael to perform the following tasks:

Task 2: Determine the total cost a customer would pay for purchasing a tablet priced at ₱ 17,500.00.

Task 3: Compare the total cost for the customer (including commission and sales tax) of purchasing a smartphone priced at ₱ 40,000.00 from your store to the total cost of buying the same smartphone from a nearby competitor that does not offer commissions to sales associates but charges the same sales tax rate.

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Activity 5: Let's DIG DEEPER!

Materials Needed: Worksheet, pen and paper, slide presentation.

Directions: Analyze and solve what is asked in the following problems. Show your solutions on your answer sheet and label your answers.

1. Jerry sold three kaings of mangoes for ₱7 500 and received ₱637.50 as his commission. What was his commission rate?

2. Joy is a travel agency agent. She receives an 8.5% commission for booking services. How much commission will she receive for booking a total amount of ₱55 000?

3. Cora bought a new laptop computer that cost ₱28 985. Looking at her Official Receipt, she found out that a sales tax of ₱2 318.80 was added to the cost of the laptop she bought. Find the sales tax rate.

4. Lea makes money by commission. She gets 15% of the total sales of everything she sells. If Lea sold ₱37 000 worth of items this month, how much is her commission for the month?

5. The sales tax on a ₱13 800 appliance is ₱1 656. What is the rate of sales tax?

Guide Questions

1. Were you able to accomplish all the given tasks correctly?
2. What part of the activity did you find most challenging?
3. What ideas or concepts do we still need further discussion?

Component 5: Lesson Conclusion

Activity 6: COMMISSION AND SALES TAX CHALLENGE!

Duration: 5-7 minutes

Directions: Solve the following problems. Show your solution and box your final answer on a clean sheet of paper.

1. If a lot is sold for ₱380,000.00 and the commission rate is 5%, how much will the salesperson get?
2. April sold ₱28,500.00 worth of advertisement for an annual souvenir program. If her commission was ₱1 282.50, what was her commission rate?
3. The sales tax on a ₱13 800 appliance is ₱1 656. What is the rate of sales tax?

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Activity 7: Money Matters: Commission and Sales Tax in Retail

Directions: Solve the following problems on commission. Show your solution and box your final answer on a clean sheet of paper.

1. How much was your commission if you sold an item that was ₱ 50,000.00 and received a 25% commission?
2. Andy makes 10% on every item that he sells. He sold a couch for ₱ 42,500.00. How much did he earn in commission?
3. How much was your commission if you sold an item that was 25,000.00 and received a 60% commission?
4. Nicole sold makeup to four people. The sales were ₱ 4,250.00, ₱6,250.00, ₱ 23,000.00, ₱ 12,500. How much did she earn in commission if her commission rate is 15%?
5. How much was your commission if you sold an item that_₱ 105,000.00 and received a 35% commission?

Activity 8: REINFORCEMENT

Directions: Solve what is asked in the following problems. Show your solution on your answer sheet and label your answer.

1. Cora bought a new laptop computer that cost ₱ 28 985.00. Looking at her official receipt, she discovered that a sales tax of ₱ 2 318.80 was added to the cost of the laptop she bought. Find the Sales Tax rate.
2. Lea makes money by commission. She gets 15% of the total sales of everything she sells. If Lea sold ₱ 37,000.00 worth of items this month, how much is her commission for the month?

Reflections:

- As we conclude this lesson, reflecting on the valuable skills we've developed is essential. We have navigated the complexities of applying percentages to solve money problems.
- Initiate a Reflective Discussion by asking open-ended questions like, "What was the most important concept you learned today?" or "How can you apply today's lesson in real-life situations?" Encourage students to think about how the lesson connects to practical scenarios like entrepreneurship or business.
- Encourage self-assessment by asking, "What did you find challenging about this lesson, and how did you overcome it?" or "What skill do you feel you improved the most?"
- Conclude the session by summarizing the key takeaways of the lesson, highlighting how each point contributes to a broader understanding of mathematics and its application. Let the learners enumerate the knowledge gained from the lesson.

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	**First**
Week:	5	**Day:**	**3**
Lesson Title/ Topic:	Number and Algebra Application of Percentages on Money Problems		
Name:		**Grade & Section:**	**7**

Component 1: (Lesson Short Review)

Activity 1: **REVIEW THE BASICS**

Objective(s):

1. define simple interest.
2. solve money problems involving percentages, specifically on simple interest.

Materials Needed: pen and paper/notebook, worksheet, calculator, and slide presentation.
Duration: 7 minutes

Directions: Perform the following operations

1. Write 145% as a fraction.
   a. $1\frac{3}{8}$ b. $1\frac{8}{25}$ c. $1\frac{9}{20}$ d. $1\frac{3}{4}$

2. Find 15% of 360.
   a. 54 b. 5.4 c. 540 d. 0.54

3. 9 is what percent of 36?
   a. 50% b. 40% c. 400% d. 25%

4. 9% of what number is 54?
   a. 60 b. 600 c. 6 d. 6000

5. 38% of 92 is what number?
   a. 34.96 b. 242 c. 130 d. 54.6

Problem-Solving

1. Rex earned a commission of ₱ 87,500.00 on a home that was sold for ₱ 2,150,000.00 Find the rate.
   a. 6% b. 7% c. 8% d. 9%
2. A person bought a house for ₱ 4,350,000.00 and made a 15% down payment. How much was the down payment?
   a. ₱ 652,000 b. ₱ 652,500 c. ₱ 625,500 d. ₱ 526,000
3. If the sales rate is 3% and the sales tax on a calculator is ₱ 300.00, what is the calculator's cost?
   a. ₱ 1000 b. ₱ 10 000 c. ₱ 15 000 d. ₱ 20 000

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Component 2: (Lesson Purpose/Intention)

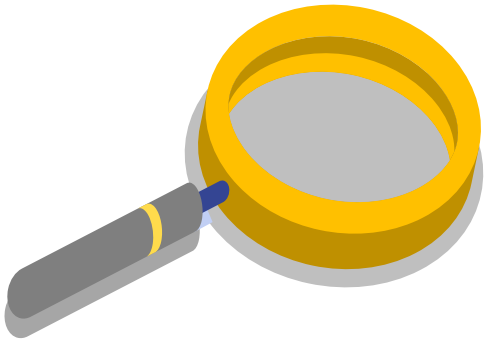
Once the activity is finished, the teacher will summarize the intended outcomes, emphasizing the differences between the concepts taught in the previous lesson and a more comprehensive discussion of the current lesson. The primary goal of this section of the lesson is to strengthen their understanding of computing percentages in practical situations, particularly about simple interests, while also emphasizing their importance in more challenging contexts.

Component 3: Lesson Language Practice

Activity 3: WORD SEARCH!

Materials Needed: Worksheet, pen and paper, slide presentation.
Duration: 5 - 7 minutes

Directions: Find all the hidden words in the grid. Read backward or forward, up or down, or even diagonally. Cross them off the list when you find them.



T	N	I	B	T	E	U	Z	L	E	W	I	S	D	D
A	E	Z	X	X	F	R	A	T	E	U	C	P	P	I
F	M	K	A	R	L	P	I	S	G	K	L	H	L	S
V	I	C	K	M	V	G	O	W	F	X	F	A	J	C
Y	T	Y	T	I	R	U	T	A	M	B	C	T	V	O
E	R	I	O	V	H	J	K	C	V	N	C	E	C	U
P	M	A	O	W	Q	T	B	H	U	J	N	R	I	N
E	R	I	N	H	T	K	Y	E	H	K	C	M	E	T
B	X	I	N	I	P	H	O	R	R	P	S	U	H	F
Y	A	Y	N	T	D	M	N	U	Z	W	L	A	G	L
O	B	M	Y	C	E	R	M	T	P	A	D	T	M	W
U	H	L	N	N	I	R	O	U	V	V	B	O	P	N
J	E	Q	Y	W	Z	P	E	F	Z	Q	M	R	D	M
N	Z	E	M	I	T	X	A	S	I	B	F	T	B	Q
X	S	Q	C	E	Z	Y	X	L	T	T	M	C	L	Q

Discount
Interest
Principal
Future Value
Term
Exact Time
Rate
Ordinary Time
Maturity Value

Questions:

- How did you find the activity?
- How did you find the hidden words?
- How are these words related to each other?
- Define/describe each.
- How is it related to your daily activities?

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Component 4: Lesson Activity 4A & B

Activity 4: **SIMPLE INTEREST**

Materials Needed: Worksheet, pen and paper, calculator, slide presentation.
Duration: 25 minutes

Directions: Read and analyze the paragraphs carefully, then answer the following questions. Write your answers on your answer sheet.

To calculate interest, you need three key amounts: the **principal,** the **rate**, and the **time**.

- The **principal** is the total amount of money borrowed or invested in government bonds, savings accounts, or other financial instruments.
- The **rate** is the percentage of interest you earn or pay.
- The **time** is how long the money is borrowed or invested, whether in days, months, or years.

The **maturity or future value** is the total amount you have after adding the interest to the principal.

The basic formula for computing the interest uses the principal, rate, and time as follows:

Interest = Principal × Rate × Time or I = PRT

Maturity value or Future value = Principal + Interest or MV=P + I

Example 1: Find the interest on a loan of ₱ 180,000.00 for three years at a rate of 8%.

Given:

Principal amount (**P**) = ₱ 180,000.00
Rate (**R**) = 8%.
Time (**T**) = 3 years
Interest (**I**) =?

Solution:

Change the rate to a decimal and substitute in the formula **I = PRT**: 8%= 0.08

I = PRT
= ₱ 180,000 × 0.08 × 3
= **₱ 43, 200.00**

Therefore, the interest on the loan is ₱ 43,200.00.

Example 2: Find the maturity value for the loan in the previous problem.

Solution**:** Substitute in the formula **MV = *P* + *I***.

MV = *P* + *I*
= ₱ 180, 000 + ₱ 43,200
= ₱ 223, 200.00

Example 3: Builders Depot Ceramics, Inc. needed to borrow ₱100,000.00 at an annual interest rate of 4% for three months. Calculate the interest that needs to be paid.

Note: For the **terms of interest,** when the interest is **annual**, the rate of interest is divided by 12 months (1 year = 12 months). When the time of a loan or investment is given in months, however, If the interest is calculated daily, you must divide the rate by 365 (1 year = 365 days).

Solution: Change three months to years by dividing by 12.

$\frac{3}{12}$= 0.25

Change the rate to a decimal. 4% = 0.04

Substitute in the formula **I = PRT.**

I = ₱ 100 000 × 0.04 × 0.25
= ₱ 100

The interest is **₱ 100.00.**

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Questions:

1. Junryx Auto Parts borrowed ₱ 360,000.00 at 6% for five years to enlarge its display area. Find the interest and maturity value of the loan.
2. Sam's Sound Shack borrowed ₱ 672,500 at 8% for three years to remodel its store. Find the interest and maturity value of the loan.
3. 4A's&Q Cellular Service borrowed ₱ 950,000 at 8.5% for three years to purchase a van. Find the interest and maturity value of the loan and the monthly payment.

Processing Questions:

1. How did you find the activity?
2. Were you able to answer the given problem correctly?
3. How did you arrive at your answer to the problem?
4. Can you explain the importance of this activity in real life?

Activity 5: **INTEREST EXPLORER**

Directions: Read and analyze the problems carefully. Write your answers on your answer sheet.

1. PAPsTOGO's Detailing Service borrowed ₱ 1,500 000.00 at 3.75% for six months to purchase new equipment. Find the interest and maturity value of the loan and the monthly payment.
2. ABC Express Delivery borrowed ₱ 707 250.00 at 4.5% for three months to purchase safety equipment for its employees. Find the interest and maturity value of the loan and the monthly payment.
3. Ormeco Electric borrowed ₱ 900,000.00 at 12% from a local bank for one year. Find the interest and maturity value of the investment and the monthly payment.
4. Gigi Cycle borrowed ₱ 120,000.00 at $12\frac{1}{2}$ % for five years to purchase new children's tricycles. Find the interest and maturity value of the loan.
5. Max Air-conditioning Company borrowed ₱ 470,500.00 at $9\frac{1}{2}$ % for five months to replace worn-out equipment. Find the interest and maturity value of the loan.

Questions:

1. Were you able to accomplish all the given tasks correctly?
2. What part of the activity are you still confused about?
3. What ideas or concepts do we still need further discussion?

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Activity 5: **TIME TO EVALUATE!**

Directions: Read and analyze the problems carefully. Write your answers in the space provided.

Problem 1

Compute the interests of the following.

1. 25,000.00 at 6% simple interest for one year. _____

2. 30,000.00 at 9.5% simple interest for 90 days. _____

3. 60,000.00 at 12.5% simple interest for two years and six months.

_____

4. 80,000.00 at 10% simple interest for 120 days. _____

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Activity 6:

Directions: Read and analyze the problems carefully, then answer the following questions.

Mark Allen, a 10-year-old boy, is a helper at his Aunt Rowena's farm during weekends and summertime. He earned ₱10,000.00 as his salary for feeding her aunt's baby goats. Her aunt offers him a chance to invest his money and earns a simple % interest rate of 15% per year. Mark's goal is to save ₱ 17,500 after six years to purchase a laptop for his college studies.

Will Mark Allen afford to buy the laptop?

Reflections:

- As we conclude this lesson, reflecting on the valuable skills we've developed is essential. We have navigated the complexities of applying percentages to solve money problems.
- Initiate a Reflective Discussion by asking open-ended questions like, "What was the most important concept you learned today?" or "How can you apply today's lesson in real-life situations?" Encourage students to think about how the lesson connects to practical scenarios like entrepreneurship or business.
- Encourage self-assessment by asking, "What did you find challenging about this lesson, and how did you overcome it?" or "What skill do you feel you improved the most?"
- Conclude the session by summarizing the key takeaways of the lesson, highlighting how each point contributes to a broader understanding of mathematics and its application. Let the learners enumerate the knowledge gained from the lesson.

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