

**7**

# Learning Activity Sheet for Mathematics

**Quarter 1**

**Lesson**

**5**

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**Learning Activity Sheet for Mathematics Grade 7**  
**Quarter 1: Lesson 5 (Week 5)**  
**SY 2024-2025**

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## LEARNING ACTIVITY SHEET

<b>Learning Area:</b>	Mathematics	<b>Quarter:</b>	1
<b>Lesson No.:</b>	5	<b>Date:</b>	
<b>Lesson Title/ Topic:</b>	Application for Percentages: Discounts and Sales		
<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 1:** Increase or Decrease (3 minutes)
- II. Objective:** Identify situations involving percentage increase and decrease
- III. Materials Needed:** Pen and paper
- IV. Instructions:** Tell whether each situation involves percentage increase or percentage decrease and justify your answer. Put a check mark for your choice (increase or decrease).



SITUATION	PERCENTAGE INCREASE	PERCENTAGE DECREASE	DEPENDS ON THE SITUATION	REASON/S
1. The present value of a car which was bought in 2020				
2. The price of gold every year				
3. Loan interests when loan is not paid religiously				

4. Loan balance when paid religiously				
5. Prices of basic commodities				
6. The grades of a student who studies smarter				
7. The population in the Philippines				
8. The number of COVID cases before the vaccines were invented				
9. The number of COVID cases after the vaccines were invented				
10. The number of students who enroll in your school every year				

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<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 2:** Sale! Sale! Sale! (10 minutes)
- II. Objective:** Solve for the discount and the sale price of each item given the discount rate and the original price
- III. Materials Needed:** Pen and paper
- IV. Instructions:** A certain online shopping platform offers discounts on selected items. Given below are discount rate and the original price of each item. Find the discount and the sale price of the item given its discount rate and its original price. Show your solution on a clean sheet of paper, and box your final answer. (Round your answer to the nearest hundredths, if necessary.)

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- I. Activity 3:** More Sale! (10 minutes)
- II. Objective:** Solve for the discount and the sale price of each item given the discount rate and the original price
- III. Materials Needed:** Pen and paper
- IV. Instructions:** 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 bought which amounted to P1,800. How much is she going to pay the cashier?
  2. Janelle bought a pair of shoes on its sale price of P1,200. How much was the discount if she was given an 18% discount rate?
  3. In an appliance store, a mini-speaker is marked "10% off". If the original amount is P1,030,
    - a. how much is the discount?
    - b. what is the sale price of the mini-speaker?

4. Peter bought a motorcycle on an installment basis and has to pay P3,600 per month for 36 months with a 2.5% discount on prompt payment. How much will she pay each month if she pays on time?
  
  
  
  
  
  
  
  
  
  
5. Cris bought a bicycle for P4,500. He was given a discount of P500. Find the rate of discount given to him.

**V. Synthesis:**

1. Have you accomplished all the given tasks correctly?

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2. What part of the activity did you find most challenging?

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3. What ideas or concepts do we still need further discussion?

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<b>Lesson No.:</b>	5	<b>Date:</b>	
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<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 4:** Discount on Selected Items Only (3 minutes)
- II. Objectives:** Solve for the discount, sale price, or the original price of an item
- III. Materials Needed:** Pen and paper
- IV. Instructions:** Complete the table by finding the missing value of the discount, sale price, or the original price of the given items. (Round your answer to the nearest hundredths, if necessary.)

Items	Original Price	Discount Rate	Discount	Sale Price
Birthday Cake	₱800	18%	_____	_____
Medicine Kit with Complete Set	_____	20%	_____	₱799.20
Wrist Watch	₱3,600	_____	₱250	_____
Laptop	_____	34%	_____	₱25,990
Study Table	₱2,250	_____	₱500	_____



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<b>Learning Area:</b>	Mathematics	<b>Quarter:</b>	1
<b>Lesson No.:</b>	5	<b>Date:</b>	
<b>Lesson Title/ Topic:</b>	Application for Percentages: Commission and Sales Tax		
<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 5:** The Mission on Commission (10 minutes)
- II. Objectives:** Solve for the commission using percentage
- III. Materials Needed:** Pen and paper
- IV. Instructions:** Read each word problems carefully. Identify what is being asked in the problem then write the formula to be used. Show the complete solution and box the final answer.

- Kim is a salesman and earns a base salary of ₱3600 per week plus 8% commission on sales. What was Kim's weekly salary if his total sales for the week were ₱22,500?
  - What is asked? \_\_\_\_\_
  - What is the formula to be used? \_\_\_\_\_
  - Solution: \_\_\_\_\_
  - What is the final answer? \_\_\_\_\_
- Marina works as a real estate agent. She has just sold a house that ₱2,500,000. If Makes makes a 3% commission, how much money did she make when she sold the house?
  - What is asked? \_\_\_\_\_
  - What is the formula to be used? \_\_\_\_\_
  - Solution: \_\_\_\_\_
  - What is the final answer? \_\_\_\_\_
- What is the commission rate of sales agent who received an amount of ₱5,800 after selling an appliances that for a total amount of ₱123,800?
  - What is asked? \_\_\_\_\_
  - What is the formula to be used? \_\_\_\_\_
  - Solution: \_\_\_\_\_
  - What is the final answer? \_\_\_\_\_

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<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 6:** Be Moti-V-A-T-ed (10 minutes)
- II. Objectives:** Solve for the sales tax using percentage
- III. Materials Needed:** Pen and paper
- IV. Instructions:** Read each word problems carefully. Identify what is being asked in the problem then write the formula to be used. Show the complete solution and box the final answer.

- Carlo bought a pair of shoes for a price of ₱2,450 plus the VAT of 10%. How much is the sales tax he needs to pay aside from the price of the shoes?
  - What is asked? \_\_\_\_\_
  - What is the formula to be used? \_\_\_\_\_
  - Solution: \_\_\_\_\_
  - What is the final answer? \_\_\_\_\_
- How much must be paid in total for the items bought in a grocery store in the amount of ₱12,564 plus the sales tax of 12.8%?
  - What is asked? \_\_\_\_\_
  - What is the formula to be used? \_\_\_\_\_
  - Solution: \_\_\_\_\_
  - What is the final answer? \_\_\_\_\_
- If the sales tax rate is 7.25%, then how much sales tax would you pay for ₱499.99 shirt?
  - What is asked? \_\_\_\_\_
  - What is the formula to be used? \_\_\_\_\_
  - Solution: \_\_\_\_\_
  - What is the final answer? \_\_\_\_\_

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<b>Lesson No.:</b>	5	<b>Date:</b>	
<b>Lesson Title/ Topic:</b>	Application for Percentages: Simple Interest Rate		
<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 7:** Simply Interesting (15 minutes)
- II. Objectives:** Apply the concept of percentage in solving simple interest rate related problems
- III. Materials Needed:** Pen and paper
- IV. Instructions:** Read and solve each word problems involving percentage related to simple interest rate.

1. How much interest is earned on ₱6,200 at 4% for one year?
2. What was the interest rate if your balance on an investment of ₱27,750 at the end of six years is ₱41,070?
3. At what rate was an investment made that obtains ₱2,520 on ₱10,500 over four years?
4. If a loan is taken out for ₱15,900 at 9% and costs ₱8,586, how long was the loan for?
5. A bank is offering 3.5% simple interest on a savings account. If you deposit ₱10,555, how much interest will you earn in two years?
6. If you borrow ₱75,000 for two and half years at an interest rate of 9.5%, what is the maturity value of the loan?

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<b>Name:</b>		<b>Grade &amp; Section:</b>	

- I. Activity No. 8:** Money Talks (20 minutes)
- II. Objectives:** Create a budget plan for a day
- III. Materials Needed:** Pen and paper
- IV. Instructions:** Read and solve each word problems involving percentage related to simple interest rate.

<b>GRASP- PERSONAL BUDGET</b>	
<b>Goal</b>	Design a personal budget that reflects your income
<b>Role</b>	Imagine you have an allowance that earns ₱150/week. You have saved all the money you earned over the 8 weeks of the first quarter of this school year. You have also had the opportunity to make more money when you help doing the chores at home. As a reward, you are given a total of ₱1300.
<b>Audience</b>	The Bank of _____ (fill in your name, or school name)
<b>Situation</b>	Create a budget for yourself that shows how much you have earned, how you have earned it, how much you plan to save, and how much you plan to spend, as well as itemizing what you plan to spend your money on.
<b>Performance or Product</b>	<p>Your budget should then include all the necessary work involved in your calculations, as well as itemized lists of what you will be spending your money on, so as to reflect your personal choices. Record your income and expenses as positive and negative integers, respectively. Present these using a table or pie chart.</p> <p>You will also need to decide whether or not you have any money left over at the end of your budget, to add to your savings, or if you are going to spend it all.</p> <p>After completing your budget, complete a personal reflection piece that discusses how you made the choices you did, with regards to how much, and where you donated money to, and what you chose to purchase.</p>