7

DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 1

Lesson

6

Learning Activity Sheet for Mathematics Grade 7
Quarter 1: Lesson 6 (Week 6)
SY 2024-2025

Development Team

Writers:
- Josephine C. Reynoso
- Steve B. Anapi (Philippine Normal University – Manila)

Validator:
- Lalaine Ann F. Manuel, Ph.D. (Central Luzon State University)

Management Team

Philippine Normal University
Research Institute for Teacher Quality
SiMERR National Research Centre

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	1
Lesson No.:	6	**Date:**	
Lesson Title/ Topic:	Identify and explain the uses of rates		
Name:		**Grade & Section:**	

I. **Activity No. 1:** Rate or Not?

II. **Objective:** Identify rates and convert it to unit rates.

III. **Materials Needed:** pen and paper

IV. **Instructions:** Write R if each of the following pairs of quantities is rate, write N if Not, then convert it to unit rate.

1. 5 humans to 10 hands	2. ₱300 per 2 hours of work
3. ₱300 to 2 kg of rambutan	4. 20 meters in 5 seconds
5. 24 miles in every 8 hours	6. ₱30,000.00 in 3 square meter
7. 60 seconds per minute	8. 6 inches in half ruler
9. 6 apples in 3 every 3 oranges	10. 15 candies in every ₱60.00

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	1
Lesson No.:	6	**Date:**	
Lesson Title/ Topic:	Identify and explain the uses of rates		
Name:		**Grade & Section:**	

I. Activity No. 2: Solve Me!

II. Objective: Identify rates and convert it to unit rates.

III. Materials Needed: pen and paper

IV. Instructions: Read and answer each problem below. Write your answer on your answer sheet. This can be done by group or by pair.

1. Manila's population in 2023 is estimated to be 14.7 million, covering a city area of 619.57 sq km (239.22 sq mi), Manila is commonly referred to as the metropolitan area, the greater metropolitan area or Metro Manila, the capital region. What is its population per square kilometer? (The answer here is called population density.)

2. A computer shop charges Php180 for a 6-hour computer rental. How much should a customer pay if he rents a computer for 8 hours?

3. A waiter serves 36 guests in 3 hours. How many guests can he serve in 5 hours?

4. The longest zip line in the Philippines and in Asia is the Zipzone of Dahilayan Adventure Park in the town of Manolo Fortich, Bukidnon with 840 meters dual cable zipline at maximum speed of 90 kilometers per hour.
   a. Find its speed in kilometers per minute
   b. How long (in minutes) would it take you to go on a round trip to this zipline?

   (Dual Zipline means multiplying 840 meters by 2)

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	1
Lesson No.:	6	**Date:**	
Lesson Title/ Topic:	Solving Problems Involving Rates		
Name:		**Grade & Section:**	

I. Activity No. 3: What is My Rate?

II. Objective: Solve word problems involving rates.

III. Materials Needed: pen and paper

IV. Instructions: Solve the following problems. Show your complete solution in the space provided.

V.

1. Aling Martha can sew 60 blouses in 5 days. How many blouses can she make in a day? What is her rate per day?	2. Marielle can type 621 words in 9 minutes. How many words can she type in 1 minute? What is her rate per minute?
3. A computer shop charges Php180 for a 6-hour computer rental. How much are customers charged per hour? How much should a customer pay if she rents a computer for 8 hours?	4. A waiter serves 36 guests in 3 hours. How many guests can he serve in 1 hour? How many guests can he serve in 5 hours?
5. You scored 80 points in 5 games. How many points do you score per game? How many points do you score in 3 games?	6. A pair of shoes costs Php4,000. How much is 3 pairs of shoes?

7. A car travels for 3 hours and covers 180 kilometers. Find its speed. How far can it travel in 5 hours?	8. A brown sugar is sold in grocery stores 2 kilos for Php174. How much is a kilo of brown sugar?
9. A book is sold to Eros at Php125. How much is 6 books?	10. Ben runs 21.24 km in 2 hours. How far can he run in 1 minute? in 1 hour?
11. An athlete ran 500 km non-stop in 75 hours. Calculate his speed (in simplest fraction form). How far can he run in 1 day?	12. Aaron travels 18 km in 3 hours, how many kilometers he has reached in 2 hours?
13. A 16 oz milk tea costs Php80 in store A, in store B 10 oz costs Php70, which store has a cheaper milk tea per ounce?	14. Marina observed that the machine consumes 3 hours and 15 minutes in finishing 3 baskets of laundry. How long will it take for 1 basket to finish? How long will it take her to finish 5 baskets?
15. Three bags is worth Php33,000. How much is 4 bags?	16. 5 t-shirts costs Php1,200. How much is two t-shirts?