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DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 3
Lesson
3

Learning Activity Sheet for Mathematics Grade 8
Quarter 3: Lesson 3 (Week 3)
SY 2025-2026

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	3
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Linear Inequalities in One Variable and their Graphs		
Name:		**Grade & Section:**	

I. **Activity No. 1:** Solving Linear Inequalities

II. **Objective(s):** solve linear inequalities in one variable and graph on a number line the solution of linear inequalities in one variable.

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

IV. **Instructions:** Solve the following inequalities and graph their solutions on a number line.

1. $x+5>7$

2. $3x-4\leq 8\leq 8$

3. $-2x+6\geq 2$

4. $\frac{1}{2}x-1<3$

5. $5x+3>2x-7$

6. $4-x\leq 10$

7. $-3x+9<0$

8. $2(x-3)>4$

9. $3x+12\geq 5$

10. $7-2x<3x-8$

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	3
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Word Problems Involving Linear Inequalities in One Variables		
Name:		**Grade & Section:**	

I. Activity No. 2: Word Problems

II. Objective(s): solve problems involving linear inequalities in one variable.

III. Materials Needed: pen and paper

IV. Instructions: Solve the following inequalities and graph their solutions on a number line.

1. Nayeon won 40 lollipops playing at the school fair. She gave two to every student in her math class, and she has at least seven left.
   a. Write an inequality to represent the situation.

   b. Solve the inequality to find the maximum number of students in her class.

2. More than 450 students went on a field trip. Ten vans were filled, and 5 more students traveled in a car.
   a. Write an inequality to represent the situation.

   b. Solve the inequality to find the minimum number of people on each van.

3. Maloi spent less than P26 on a magazine and five stationaries. The magazine cost 4.
   a. Write an inequality to represent the situation.

   b. Solve the inequality to find the maximum cost of each stationary,

4. Sheenah rented a bike. They charged her P20 per hour plus a P10 fee. She paid less than P270.
   a. Write an inequality to represent the situation.

   b. Solve the inequality by finding the maximum number of hours Sheenah rented the bike.

5. Ren saves P5 each week and earns an extra P15 by cleaning the garbage. How many weeks will he need to save to have at least P75?
   a. Write an inequality to represent the situation.

   b. Solve the inequality and answer the question.

V. Synthesis/Extended Practice/Differentiation:

- What strategies can be employed to solve word problems involving linear inequalities in one variable?

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