

1st Quarter Grade 8 Supplemental Lesson Plan

Mathematical Problems Involving Linear Equations in Two Variables

Introduction:

Conduct a review on the different forms of linear equations in two variables.

Given the following information, write the equation in standard form.

- a. $(0, 0)$ and $(0, 6)$
- b. $m = -5$ and $(0, -8)$
- c. $(-2, 9)$ and $(3, 8)$
- d. $(0, 1)$ and $(-10, 0)$

Body:

1. Post a word problem involving systems of linear equations in two variables.
2. Demonstrate how to solve a word problem involving linear equations in two variables. Ask the students to take note of important steps.
3. After the whole class demonstration, post another word problem but this time, guide the students in answering the question. Do a quick check to assess areas where students need help.
4. Form a group of three. Using Think-Pair-Share activity (Lyman, 1981), ask the students to answer collaboratively to the given problem.
 - a. Students work on the problems individually then form in pairs to discuss their thoughts and compare their answers.
 - b. The pairs will share their answers to the whole class.
5. Conduct a whole class discussion on the answer on the challenge problem.
 - a. How can we solve problems involving linear equations in two variables?
 - b. What are the things to consider when solving word problems?

Knowledge

Problem Solving Involving Linear Equations in Two Variables

Learning Competency

M8AL-IIb-2

- Solves problems involving linear equations in two variables

KU

- Systems of linear equations can be used to model problems.

KQ

- How can systems of equations be used to represent situations and solve problems?

- c. What are your ways to easily solve a word problem?
6. Call on students to share their answers.
7. After a series of demonstration, guided work, and collaborative exercises, give the students a problem set that they will answer on their own.
8. For enrichment, let the students choose from the **Learning Modalities** tasks below.

Visual

Show to a classmate your ways of solving word problems involving linear equations in two variables using charts.

Auditory

Explain to a classmate who is having a difficulty with problem solving an easy way to solve word problems involving linear equations in two variables.

Bodily Kinesthetic

Show to a classmate how to solve word problems involving linear equations in two variables in an easy way using body parts as clues.

Conclusion:

Conduct a spin-off 3-2-1 activity (Rutherford, 2008) in facilitating the summary of the day's lesson.

Ask the students to write in a piece of paper their thinking on the

- 3 important facts they learned
- 2 questions about the lesson
- 1 realization about the lesson

Differentiated Activities

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