Lesson 2.1.3: Solving Problems Involving Linear Inequalities in Two Variables

How to Solve Problems Involving Linear Inequalities in Two Variables?
1. Understand the problem. Decide what are asked for and what information is given.
2. Write the inequality that represents the relationship stated in the problem.
3. Solve the linear inequality formed.

Practice Exercises 2.1.3

1. The total amount Cris paid for 3 kilos of pork and 2 kilos of chicken is less than Php 600. Suppose a kilo of pork costs ₱130. What could be the maximum cost of a kilo of chicken to the nearest pesos?
2. The difference between the grades of Moymoy and Palaboy in Math is not more than 5 points. Suppose Moymoy's grade is 83, what could possibly be the grade of Palaboy?
3. Mang Canor has some ₱20 and ₱10 coins. The total amount of these coins is at most Php 800. Suppose there are 40 ₱10-coins. What is the possible number of ₱20-coins that Mang Canor has?
4. Adeth has some Php 10 and Php 5 coins. The total amount of these coins is at most Php 750. Suppose there are 50 Php 5-coins. What is the possible number of Php 10-coins that Adeth has?

Activity 2.1.3

1. The total amount Cora paid for 2 kilos of beef and 3 kilos of fish is less than Php 700. Suppose a kilo of beef costs Php 250. What could be the maximum cost of a kilo of fish to the nearest pesos?
2. The difference between the scores of Connie and Minnie in the test is not more than 6 points. Suppose Connie's score is 32 points, what could possibly be the score of Minnie?