

# LINEAR PROGRAMMING

1. This time, our immune system is the best defense. With this, a Melagael wishes to mix two types of foods in such a way that vitamin contents of the mixture contain at least 8 units of vitamin A and 10 units of vitamin C. Food A contains 2 units/kg of vitamin A and 1 unit/kg of vitamin C. Food B contains 1 unit/kg of vitamin A and 2 units/kg of vitamin C. It costs ₱50 per kg to purchase Food A and ₱70 per kg to purchase Food B. Formulate this problem as a linear programming problem to minimize the cost of such a mixture.

	Vitamin A	Vitamin C	Price
Food A	2 units/kg	1 unit/kg	Php 50
Food B	1 unit/kg	2 units/kg	Php 70

## Define the Variables

Let  $x$  be the kilogram of Food A to be mixed in the mixture.  
 $y$  be the kilogram of Food B to be mixed in the mixture.

## Identify the Objective Function

$$z = 50x + 70y$$

## Identify the Constraints

$$x \geq 0, y \geq 0$$

$$2x + 1y \geq 8$$

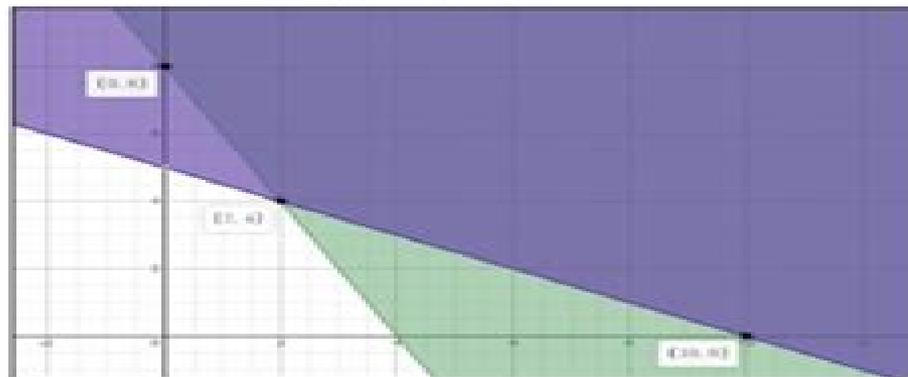
$$x + 2y \geq 10$$

Non-negativity constraints

The mixture should at least contain 8 units of Vitamin A per kilogram.

The mixture should at least contain 10 units of Vitamin C per kilogram.

## Illustrate Constraints by Graphing



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**J Elliott**



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