



There is no feasible region and thus, Z has no maximum value.

Exercise 12.2

Question 1:

Reshma wishes to mix two types of food P and Q in such a way that the vitamin contents of the mixture contain at least 8 units of vitamin A and 11 units of vitamin B. Food P costs Rs. 60/kg and Food Q costs Rs. 80/kg. Food P contains 3 units /kg of vitamin A and 5 units /kg of vitamin B while food Q contains 4 units /kg of vitamin A and 2 units /kg of vitamin B. Determine the minimum cost of the mixture?

Solution 1:

Let the mixture contain x kg of food P and y kg of food Q. Therefore, $x \geq 0$ and $y \geq 0$
The given information can be compiled in a table as follows:

	Vitamin A (Units / kg)	Vitamin B (Units / kg)	Cost (Rs / kg)
Food P	3	5	60
Food Q	4	2	80
Requirement (units / kg)	8	11	

The mixture must contain at least 8 units of vitamin A and 11 units of vitamin B.
Therefore, the constraints are

$$3x + 4y \geq 8$$

$$5x + 2y \geq 11$$

Total cost, Z , of purchasing food is, $Z = 60x + 80y$

The mathematical formulation of the given problem is

$$\text{Minimize } Z = 60x + 80y \quad \dots (1)$$

subject to the constraints,

$$3x + 4y \geq 8 \quad \dots (2)$$

$$5x + 2y \geq 11 \quad \dots (3)$$

$$x, y \geq 0 \quad \dots (4)$$

The feasible region determined by the system of constraints is as follows:

Answers For Linear Programming Basics

Steven S. Skiena

Answers For Linear Programming Basics:

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[Linear Programming](#) Leonard W. Swanson,1980 [Linear Programming](#) Katta G. Murty,1983-10-07 Formulation of linear programming the simplex method geometry of the simplex method duality in linear programming revised primal simplex method the dual simplex method numerically stable forms of the simplex method parametric linear programs sensitivity analysis degeneracy in linear programming bounded variable linear programs the decomposition principle of linear programming the transportation problem computational complexity of the simplex algorithm the ellipsoid method iterative methods for linear inequalities and linear programs vector minima

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Byte ,1987-07 **The Software Encyclopedia** ,1985 [Mathematical Reviews](#) ,1992 *Applied Finite Math* Howard Anton,2000-07 [Instructor's Manual to Accompany Operations Management](#) Stevenson,2004-03

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