Unit 2 Quiz

Due Jan 30 at 11:59pm   **Points** 4   **Questions** 4

Available Jan 19 at 12am - Jan 30 at 11:59pm 12 days   **Time Limit** None

Instructions

Unit 2 Quiz

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	4,136 minutes	2 out of 4

Score for this quiz: **2** out of 4

Submitted Jan 25 at 8:36am

This attempt took 4,136 minutes.

Question 1	**0 / 1 pts**

On Smullyan's Island, a place in which all inhabitants are either liars or truth-tellers, you come across two inhabitants, one named Daryl and the other named Rosita. Daryl says to you: "Neither of us are truth-tellers". What is Rosita?
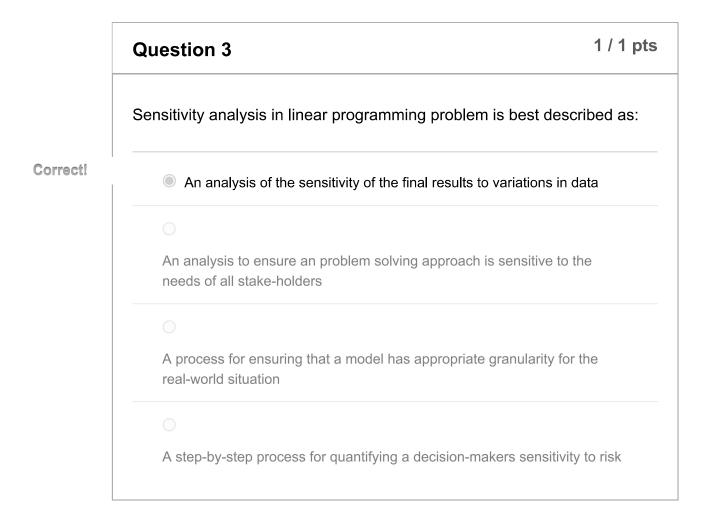
○ There is no Rosita

orrect Answer

○ Rosita is a truth-teller

ou Answered

⊙ Rosita is a liar

○ There is not enough information

Question 2　　　　　　　　　　　　　　　　1 / 1 pts

Three fundamental components of optimization problem formulation are:

○ Satisfiability, duality, and proportionality

○ Sensitivity, validation, and algorithm complexity

○ Corner point(s), shadow price(s), and region of infeasibility

Correct!

◉ Decision variable(s), constraint(s), and objective(s)

Question 3　　　　　　　　　　　　　　　　1 / 1 pts

Sensitivity analysis in linear programming problem is best described as:

Correct!

◉ An analysis of the sensitivity of the final results to variations in data

○

An analysis to ensure an problem solving approach is sensitive to the needs of all stake-holders

○

A process for ensuring that a model has appropriate granularity for the real-world situation

○

A step-by-step process for quantifying a decision-makers sensitivity to risk

Question 4
0 / 1 pts

Which of the following optimization problem types could have multiple linear constraints and integer upper bounds on all decision variables?

○ Only a linear program

○ Linear and integer programs, but not non-linear programs

orrect Answer

○ Linear, integer, and non-linear programs

○ None of these choices!

ou Answered

◉ Only integer programs

Quiz Score: **2** out of 4