FIT3158 Business decision modelling - S2 2022

1001 30000 5000 1000 1000 1000	Sto.		
<u>Dashboard</u> / My uni	its / FIT3158_S2_2022 / Assessments / Quiz Week 6		
Ctouted on	Friday, 2 September 2022, 12:10 PM		
	Finished		
	Friday, 2 September 2022, 12:18 PM		
	8 mins 14 secs		
Grade	1.00 out of 1.00 (100 %)		
Which step of the problem-solving process is considered the most important?			
○ a.	Test results.		
b.	Identify problem.	~	
○ c.	Analyse model.		
Od. Implement solution.			
A redu a. b.	is: Identify problem. Indant constraint is a constraint which is added after the problem is already formulated. plays no role in determining the feasible region of the problem. is parallel to the level curve.	*	
O d. can only increase the objective function value.			
The correct answer	is: plays no role in determining the feasible region of the problem.		
A math	hematical model is considered to be "valid" when		
○ a.	it has passed a validation test.		
b.	it accurately represents the relevant characteristics of the object or decision.	~	
O c.	the left-hand and right-hand sides of expressions are equal.		
	s all aspects of the object or decision.		
u. It replicates	s an aspects of the object of decision.		

The correct answer is: it accurately represents the relevant characteristics of the object or decision.

Limited resources are modelled in optimization problems as	
a. constraints.	~
○ b. an objective function.	
○ c. alternatives.	
O d. decision variables.	
The correct answer is: constraints.	
The best models	
 a. accurately reflect relevant characteristics of the real-world object or decision. 	~
 b. replicate the characteristics of a component in isolation from the rest of the system. 	
○ c. are mathematical models.	
Od. replicate all aspects of the real-world object or decision.	
The correct answer is: accurately reflect relevant characteristics of the real-world object or decision.	
All of the following are benefits of modelling except:	
a. Modelling is less expensive than implementing several alternative solutions.	
 b. Modelling delivers needed information on a more timely basis. 	
o. Modelling is helpful in examining things that would be impossible to do in reality.	
d. Modelling finds the right answers to incorrect or flawed problem statements.	~
The correct answer is: Modelling finds the right answers to incorrect or flawed problem statements.	
The symbols X_1 , Z_1 , in a mathematical formulation of a decision problem are all examples of	
○ a. parameters.	
○ b. objectives.	
O c. constraints.	
d. decision variables.	~
The correct answer is: decision variables.	

In the following expression, which is (are) the dependent variable(s)?

PROFIT	= REVENUE - EXPENSES
○ a.	Revenue
○ b.	Profit and Expenses
c. Profit	✓
Od. Expenses	
The correct answer i	s: Profit
The spe	ecification or description of the relationship between the dependent and independent variables is generally called
○ a.	a declaration.
○ b.	a mathematical model.
c.	a function.
od. a constraint.	
The correct answer i	s: a function.
A mana	ger has only 200 tons of plastic for his company. This is an example of a (an)
○ a.	decision.
○ b.	parameter.
c.	constraint.
d. objective.	
The correct answer i	s: constraint.
■ Quiz Wook F	
■ Quiz Week 5 Jump to	\$
ourip to	Quiz Week 7 ▶
	Quiz Week /