

FIT3158 Business decision modelling - S2 2022

	Friday, 16 September 2022, 3:49 PM
State	Finished
Completed on Time taken	·
	0.00 out of 1.00 (0%)
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Question 1	
Incorrect	
Mark 0.00 out of 1.00	
setup cost of \$1,00 \$0.55 loss per copy	endars and diaries, and wishes to determine how many copies of diary to print for the coming year. There is a fixed 0 and the incremental profit per diary is \$0.45. Any unsold copies of the diary can be sold to a recycling plant at a 2. It is are estimated to be normally distributed. The most likely sales volume is 10,000 copies and they believe there is a
	s are estimated to be normally distributed. The most likely sales volume is 10,000 copies and they believe there is a es will exceed 15,000.
(Hint: This is a sing	le-period order quantity model)
Calculate the follow	ving:
1. The Standard of	deviation corresponding to a 5% chance that sales will exceed 15,000:
2. Cost of overes	timating demand:
3. Cost of undere	stimating demand:
4. What is the op	timal probability of no shortage i.e. P(D < Q*):
5. What is the z v	alue corresponding to the P(D < Q*):
How many copies s	should be printed? 10,380
■ Quiz Week 7	

Quiz Week 9 ▶