These forms can be found on the computer in the computer lab on the first and third (306) floors of the Dillard building.
They can be found on the following directory of Dillard,
MyComputer
Dillard College of Business
Coursework$(Y:)
Mike Patterson
homeworkdocuments
operations

Name _____
Operations Management Assignment # 1

I.

A. Fixed Cost _____
B. Price _____
C. Variable Cost _____

Break-Even Point in Units _____
Break-Even Sales in $ _____

II.

A. Fixed Cost + Desired Profit _____
B. Price _____
C. Variable Cost _____

Break-Even Point in Units _____
Break-Even Sales in $ _____

III. Allocation of Fixed Cost per unit (show work)

Name _____
Operations Homework #2

Total Fixed Cost _____
Total Number of Products_____
Sales Price Product 1 _____
Variable Cost Product 1 _____
% Total Sales Product 1 _____
Sales Price Product 2 _____
Variable Cost Product 2 _____
% Total Sales Product 2 _____
Sales Price Product 3 _____
Variable Cost Product 3 _____
% Total Sales Product 3 _____
Sales Price Product 4 _____
Variable Cost Product 4 _____
% Total Sales Product 4 _____

Total Contribution _____
Break-Even Sales $ _____

- What is the Margin of Safety if Sales =$75,000?

Name _____
Operations Homework # 3

I. Total Fixed Cost _____

Selling Price _____

Variable Cost _____

Break Even Units _____

Break Even $ _____

II. Total Fixed Cost _____

Selling Price _____

Variable Cost _____

Break Even Units _____

Break Even $ _____

III.
Fixed Cost Alternative 1 _____

Fixed Cost Alternative 2 _____

Variable Cost Alternative 1 _____

Variable Cost Alternative 2 _____

Answer _____

Name _____

Operations Homework # 4

Birmingham
Fixed Cost_____
Variable Cost _____

Memphis
Fixed Cost_____
Variable Cost _____

Indifference Point_____

< Indifference Point Prefer _____

> Indifference Point Prefer _____

Memphis
Fixed Cost _____

Variable Cost _____

Biloxi
Fixed Cost _____

Variable Cost_____

Indifference Point _____

< Indifference Point Prefer _____

> Indifference Point Prefer _____

Name _____

Operations Homework # 5

I . In City	Total Revenue	Total Fixed Cost	Total Variable Cost	Net Profit
200 Cars	_____	_____	_____	_____
300 Cars	_____	_____	_____	_____

II. Outside City	Total Revenue	Total Fixed Cost	Total Variable Cost	Net Profit
200 Cars	_____	_____	_____	_____
300 Cars	_____	_____	_____	_____

III. In City

Fixed Cost _____

Variable Cost _____

Outside City

Fixed Cost _____

Variable Cost _____

Indifference Point _____

> Indifference Point Prefer _____

< Indifference Point Prefer _____

Name _____

Operations Homework # 6

INPUT

From\To	A	B	C	D	SUPPLY
1					
2					
3					
Dummy					
Demand					

SOLUTION

PAYOFF _____

Show Distribution Below

Name _____
Operations #7

INPUT

FROM\TO	D	E	F	G	H	SUPPLY
A						
B						
C						
DEMAND						

SOLUTION

COST _____

Show Distribution Below

Name _____
Operations Homework # 8

act	nodes	a	m	b	EF(TE)	LF(TL)	slack	cp
A	1-2	2	3	4				
B	2-3	1	2	3				
C	2-4	4	5	12				
D	2-5	3	4	11				
E	3-6	1	3	5				
F	4-6	1	2	3				
G	5-8	1	8	9				
H	6-7	2	4	6				
I	7-9	2	4	12				
J	8-9	3	4	5				
K	9-10	5	7	8				

Standard Deviation _____

Expected Completion _____

Critical Path _____

Name _____

Operations Homework # 9

act	nodes	te	EF(TL)	LF(TL)	slack	CP
A	1-2	15				
B	2-3	12				
C	3-4	6				
D	3-9	5				
E	4-9	3				
F	1-5	8				
G	5-7	8				
H	5-6	9				
I(dummy)	6-7	0				
J(was I)	7-8	14				
K(was J)	7-9	7				
L(was K)	8-9	8				

Expected Completion_____

Critical Path _____

Name _____
Operations Homework # 10

OBJECTIVE FUNCTION _____

SUBJECT TO: _____upper calorie limit

_____ starch

_____ limit on A

_____lower calorie limit

_____ protein

SOLUTION

PAYOFF _____

B _____

A _____

UPPER CALORIE LIMIT _____

LOWER CALORIE LIMIT _____

LIMIT ON A _____

STARCH _____

PROTEIN _____

Name _____
Operations Homework # 11

OBJECTIVE FUNCTION _____

SUBJECT TO

_____ Mill

_____Lathe

_____ Grind

_____ Market X-3

SOLUTION

PAYOFF_____

X1 _____

X2 _____

X3 _____

GRIND _____

MILL _____

LATHE _____

Name _____
Operations Homework # 12

OBJECTIVE FUNCTION _____

SUBJECT TO:

_____Gin

_____Bourbon

_____Vermouth

_____Scotch

_____ Vodka

_____ Martini

SOLUTION

PAYOFF _____

Scotch on the Rocks _____

Martini _____

Atomic Bomb _____

Snowdrift_____

Kentucky Colonel _____

Steamroller _____

Slack variables

Name _____
Operations Homework # 13

INPUT

Order Cost _____

Carry Cost _____

Annual Usage _____

Price (no discount) _____

Discount Price _____

Qty for Discount _____

	EOQ	Discount
Material Cost		
Order Cost		
Carry Cost		
Total Cost		

Savings _____

Extra Investment _____

ROI _____

Name _____
Operations Homework # 14

Order Cost _____

Carry Cost _____

Annual Usage _____

Price (no discount) _____

Discount Price _____

Qty Discount _____

	EOQ	Discount
Material Cost	_____	_____
Order Cost	_____	_____
Carry Cost	_____	_____
Total Cost	_____	_____

Savings _____

Extra Investment _____

ROI _____

Name _____

Operations Homework # 15, 16, 17

First Simulation

Order Cost _____

Annual Forecasted Usage _____

Price _____

Carry Cost _____

SOLUTION

EOQ _____

INPUT

QTY Discount ?____NO

_____

Enter the Demand During Average Lead Time Here (when complete -after the 130, enter a -1)

SOLUTION

Reorder	Stockout	Carry	Total
100	_____	_____	_____
110	_____	_____	_____
120	_____	_____	_____
130	_____	_____	_____

Recommended Reorder Point _____

Safety Stock _____

enter YES when the program ask if you wish to run the simulation

Enter the lead time distribution here

Enter the demand during average lead time here

# of weeks to simulate _50___

ORDER QUANTITY _____

ORDER POINT_____

CUMULATIVE COST _____

2ND SIMULATION (#16)

ORDER QTY _____

ORDER POINT_____

CUMULATIVE COST_____

3RD SIMULATION (17)

ORDER QTY _____

ORDER POINT ___ _____

CUMULATIVE COST _____