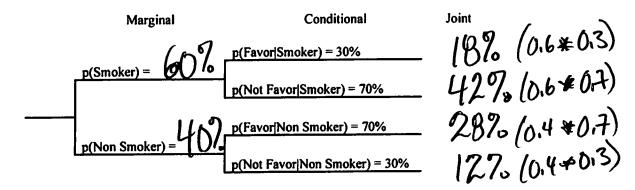
Ouiz #1E

Please complete the following exam. Read all instructions carefully and answer each question asked. Calculations and notation are important but so are explanations and dialogue.

- For the safety and health reasons, Japan Airliner Company is considering moving all flights to 1. nonsmoking flights. However, the Board of Directors is going to take a vote and most of them are smokers. The Board of Directors consists of 40% nonsmokers and 60% of smokers. 70% of the nonsmokers and 30% of the smokers favor the nonsmoking policy (i.e., given a nonsmoker there is a 70% chance that they favor the nonsmoking policy and given a smoker there is a 30% chance that they favor the nonsmoking policy).
 - Finish the probability tree that has been started a.



b. Construct a probability table for this problem.

What is the percentage that is in favor of the policy? c.

P(FAVOR)=46% from table | 46% tavor

Determine the probability of a nonsmoker voting in favor of the nonsmoking policy (i.e. d. p(nonsmoker AND in favor of nonsmoking policy)).

P(NS+FAVOR)=28% from table

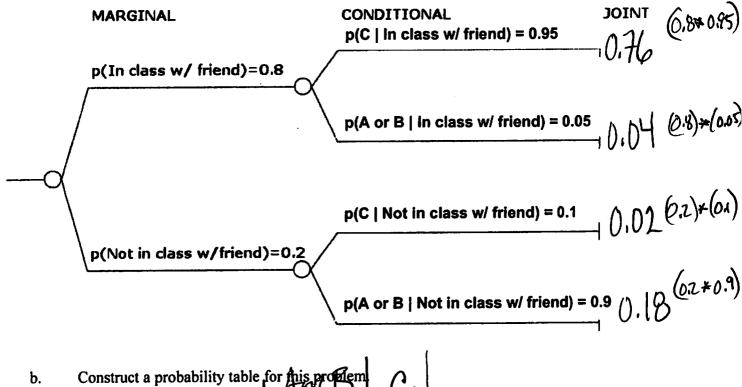
Determine the probability given that a Board of Director member opposes the nonsmoking e. policy that that Board of Director member is a nonsmoker.

Need to use BAYES P(NS |NF) = P(NS + NONFAVOR) = 12% 222%

GIVEN A BOARD

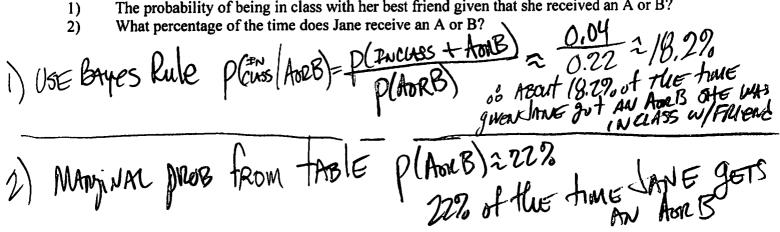
Please complete the following exam. Read all instructions carefully and answer each question asked. Calculations and notation are important but so are explanations and dialogue.

- 2. Jane knows that there is an 80% chance she will be in class with her best friend and a 20% chance that she will not be in class with her best friend. Given that she is in class with her best friend there is a 95% chance she will only get a C in the course. Likewise, given she is in class with her best friend there is a 5% chance she will get an A or B in the course. On the other hand, given she is not in class with her best friend there is a 90% chance that she will receive an A or B in the course. Likewise, given she is not in class with her best friend, there is a 10% chance she will receive a C in the course.
 - a. From this data finish the probability tree



Construct a probability table for this pro

- From your probability table, determine the following probabilities: c.
- The probability of being in class with her best friend given that she received an A or B? 1)

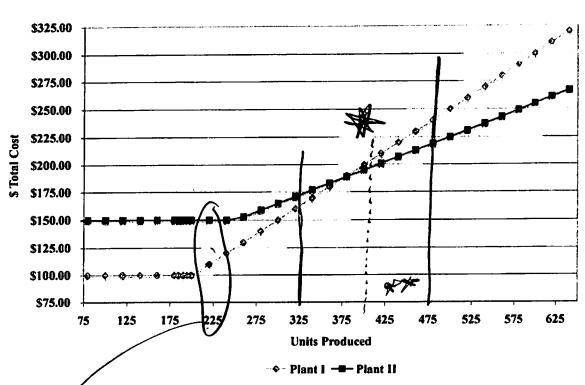


Ouiz #1E

Please complete the following exam. Read all instructions carefully and answer each question asked. Calculations and notation are important but so are explanations and dialogue.

Given the following cost-volume break-even graph discuss the following: 3.

Cost Volume Break-Even Plant I and Plant II



Jimmy's boss wants to know which plant to buy from if they plan on using around 225 units on a. average. What plant would you recommend to Jimmy and his boss? Explain why you chose The convest cost hout a 225 units is Rout I We are see this from the graph. yøur answer

Jimmy's boss now informs him the number of units they plan on using has changed and it could be as high as 475 or as low as 325. What plant should Jimmy suggest the company buy

Now we Are worky C A Reguler from 325+0475.

Now we Are worky C A Reguler from 325+0475.

The crossover of the Reguler for the Reguler. IL COULD BE A LOWER OUT PUNTON AVERAGE.

Jimmy believes his boss numbers of units they will use, 325 to 475, but he knows his boss always under-compensates and the boss' estimates of the low number is usually not enough (i.e., 325 is more like 400). What do you recommend to Jimmy now? Explain why you chose

IN this CASE PUNT IT 18 THE LOWER COST PUN OVER THE ENTRE RAME (400 +0475). THERE FORE CHOUSE PUNTIL RX. your answer.

b.

C.