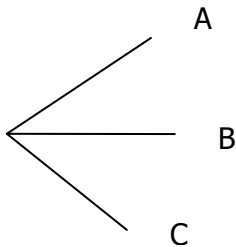


MA 110 (8.4) **EXTRA WORKSHEET 1**

Name \_\_\_\_\_

A store sells three brands of CD players. Forty percents of the CD players they sell are manufactured by Amex, 50% are made by Bates and the remainder are made by Circo. The store has found that 5% of the CD players made by Amex are defective, 4% of the Bates CD players are defective, and 20% of the Circo CD players are defective.

- A. Draw a tree diagram with the given information. It is partially outlined for you.



- B. If it is **known that** a CD player is supplied by the Circo company, what is probability that the CD Player is not defective?
- C. What is the probability that a CD player at the store comes from the Bates company?
- D. What is the probability that a CD player is both made by Bates **and** is defective?
- E. What is the probability that a CD player is defective?
- F. If it is **known that** a CD player is defective, what is the probability that it came from the Bates company?