

Example 2: The sales department of the Halgreens company released the accompanying data concerning the sales of a certain pain reliever manufactured by the company:

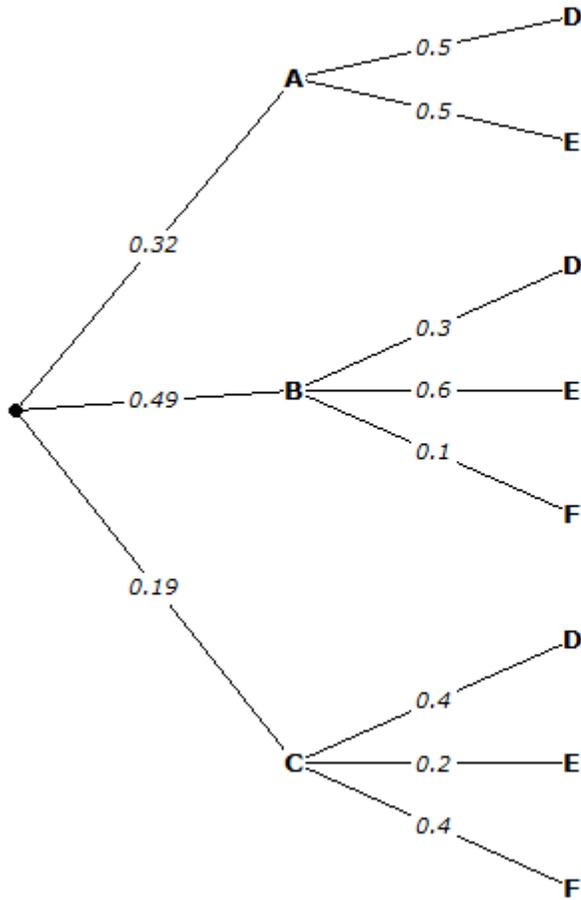
Pain Reliever	Percentage of Drug Sold	Percentage of Group Sold in Extra-Strength Dosage
Capsule Form	0.57	0.38
Tablet Form	0.43	0.31

Given that a customer purchased the extra-strength dosage of this drug, what is the probability that it was in capsule form?

Example 3: A new, inexpensive skin test is devised for detecting tuberculosis (TB). To evaluate the test before it is put into use, a medical researcher randomly selects 1,000 people, 8% of whom were known to have TB. Each of the 1,000 subjects is given the new skin tests and the following results are recorded: The test indicates TB in 96% of those who have it and in 2% of those who do not. A person is selected at random. What is the probability that:

- the test indicates TB?
- the person does not have TB, given that the test does not indicate TB?

Example 4: Given the following tree diagram, answer the given questions.



a. $P(A \cap E)$

b. $P(C \cap F)$

c. $P(D)$

d. $P(F)$

e. $P(D | B)$

f. $P(F | C)$

g. $P(B | D)$

h. $P(C | F)$