## Answer on Question #70945 – Math – Statistics and Probability

## Question

A doctor may administer drug A or drug B to her/his patients. Drug A is used on all patients except for the 10 % that show an allergic reaction to the drug. Ninety percent of the patients treated with drug A recover, while 70% of the patients treated with Drug B recover. a) Find the probability that a person will be treated with Drug A and will recover. b) a person will be treated with Drug B and will not recover

## Solution

a)  $P(drug A and Recover) = P(drug A) \times P(Recover|drug A) = 0.9 \times 0.9 = 0.81.$ 

**b)**  $P(drug B and Not Recover) = P(drug B) \times P(Not Recover|drug B) = 0.1 \times 0.3 = 0.03.$ 

**Answer: a)** 0.81; **b)** 0.03.

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