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Suppose a company offers three different delivery methods for their products: standard delivery, express delivery, and same-day delivery 60% of customers choose standard delivery, 30% choose express delivery, and 10% choose same-day delivery The delivery success rates are 95% for standard delivery, 90% for express delivery, and 85% for same-day delivery If a customer's delivery fails, what is the probability that they chose express delivery?

P(E|F) = (EnF)/P(F)

P(E|F)/P(F) = 30/75 = 0.4 == 40%

If a medical test is 95% accurate in detecting a disease and 1% of the population has the disease. Calculate the probability of having the disease given a positive test result!

 $P(S \mid +) = 0.161 == 16.1\%$

