

Answer on Question#38844 - Math- Statistics and Probability

Question.

A chartered accountant applies for a job in two firms X and Y. He estimates that the probability of his being selected in firm X is 0.7 and being rejected in Y is 0.5 and the probability that at least one of his applications is rejected is 0.6. What is the probability that he will be selected in one of the firms?

Solution.

	Rejected	Accepted
Firm X	$1-0.7=0.3$	0.7
Firm Y	0.5	$1-0.5=0.5$
	0.6	0.4

Probability that he will be selected is $0.4*0.7+0.4*0.5=0.28+0.2=0.48$