

**Answer on Question#38752 - 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  $0.4*0.7+0.4*0.5=0.28+0.2=0.48$