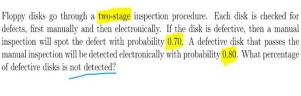


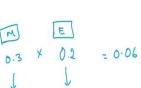
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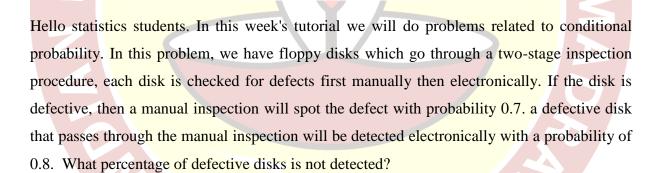
Statistics for Data Science-1 Professor. Usha Mohan Prathyush P (Support Team) Department of Management Studies Indian Institute of Technology, Madras Week 7 Tutorial 1

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So, there there is a two-stage process, one is manual and the other is electronic and in the first case so we are saying that the disk is not detected by these two stages, so the probability for that in the manual is 0.3 and the probability for that in the electronic stage is 0.2. So, now when we look at the combined probability we have 0.2×0.3 which is 0.06. So, this 0.3 is 1-0.7 because 0.7 is the probability of detection and the probability of not being detected is 0.3 likewise this is 1-0.8.