EX 13.3.1: One fair 3 -sided die $\&$ one fair 4 -sided die are both rolled.
(a) Determine the sample space for the experiment.
(b) Find $P$ (die 1 shows 3 ), $P($ die 2 shows 4$)$, $P($ die 1 shows 3 and die 2 shows 4$)$
(c) Find the probability that die 1 shows 3 given die 2 shows 4 .
(d) Find the probability that die 2 shows 4 given die 1 shows 3 .
(e) Are the events "die 1 shows 3 " \& "die 2 shows 4" independent?
(a) Draw a probability tree representing the experiment. Label all relevent events \& probabilities.
(b) What is the probability of a person in the village having the virus?
(c) What is the probability of a person in the village not having the virus?
(d) What is the probability of a person testing positive for the virus given the person has the virus?
(e) What is the probability that if a person has the virus then the person tests negative for the virus?
(f) What is the probability that a person has the virus and tests negative for the virus?

