## Answer on Question \#82887 - Math - Statistics and Probability

The probability that a married man watches a TV show is 0.4 and the probability that a married woman watches the show is 0.5 . The probability that a man watches the show, given his wife does, is 0.7 . Find the probability that:
a) a married couple watches the show
b) a wife watches the show given that her husband does;
c) at least 2 person of a married couple will watch the show.

## Question

Dear Mr. John i have an extra question: d) Find the probability that at most one member of a married couple will watch the show.

## Solution

$P($ at most 1 watch $)=1-P(M$ and $W)$.
$P(M$ and $W)=P(M \mid W) * P(W)=0.7 * 0.5=0.35$.
Thus, $P($ at most 1 watch $)=1-0.35=0.65$.

