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|W) * P(W) = 0.7 * 0.5 = 0.35.

Thus, P(at most 1 watch) = 1 - 0.35 = 0.65.

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