

I. Chance

If $P(A) = 0.3$ and $P(B) = 0.4$, and if A and B are independent events, find the following:

- a) $P(A \text{ and } B)$
- b) $P(B|A)$
- c) $P(A|B)$

Use R for any calculations to solve this problem. Include in your answer the R-commands used to arrive at the solutions/results.