Question #68584, Math / Statistics and Probability

While in a newsagents the probability that Ed buys a newspaper is 0.8

In the same newsagents the probability that Ed independently buys a magazine is 0.3

Work out the probability that Ed buys at least a newspaper or a magazine in the same newsagents. Include diagram





For independent events, the probability of a complex event is calculated as follows.

- $P(A \cap B) = P(A)P(B);$ $P(A \cup B) = P(A) + P(B) P(A \cap B)$
- $P(A \cap B) = 0.8 \times 0.3 = 0.24;$
- $P(A \cup B) = 0.8 + 0.3 0.24 = 0.86$

Answer: the probability that Ed buys at least a newspaper or a magazine in the same newsagents is 0.86.

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