QUESTION
If $p(A) = 0.3,\ p(B) = 0.8$ and $p(A \text{ or } B) = 0.9$, what is $p(A \text{ and } B)$?

ANSWER
$p(A \text{ or } B) = p(A) + p(B) - p(A \text{ and } B)$,
therefore $p(A \text{ and } B) = p(A) + P(B) - p(A \text{ or } B) = 0.3 + 0.8 - 0.9 = 0.2$