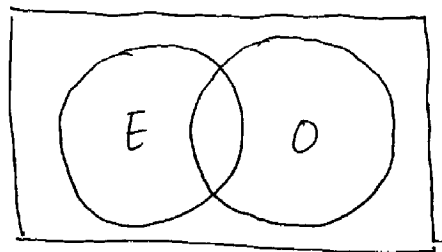


Exam P Problem 17



$Pr(O) = ?$

Given:

1) $Pr(E \cup O) = .85$

$$.85 = Pr(E) + Pr(O) - Pr(E \cap O)$$

2) $.25 = 1 - Pr(E)$

$$Pr(E) = .75$$

3) $Pr(E \cap O) = Pr(E)Pr(O)$

$$.85 = Pr(E) + Pr(O) - Pr(E)Pr(O)$$

$$.85 = .75 - (.75)Pr(O)$$

$$.10 = .25 Pr(O)$$

$$Pr(O) = .40 \quad \boxed{D}$$