

Answer on Question #45510, Math, Statistics and Probability

Three employees E1 ,E2 ,E3 of a software company try for the post of Team Leader. Their chances of succeeding are 4:3:3. The Probability that a certain employee E4 will be given pink slip when E1 ,E2 ,E3 is made Team Leader are 0.3,0.2,0.1 respectively. What is the Probability that E4 will not be given pink slip.

Solution

We just multiply and add the probabilities for each from E1, E2 and E3

$$1 - p = 1 - \left(\frac{4}{4+3+3} \cdot 0.3 + \frac{3}{4+3+3} \cdot 0.2 + \frac{3}{4+3+3} \cdot 0.1 \right) = 0.79$$

the Probability that E4 will not be given pink slip is 0.79.