**Assume that Phillies winning the World Series is independent of Eagles winning the Super Bowl. Mathematically speaking:**

***P(Phillies win World Series in a given year| Eagles win Superbowl in a given year) = P(Phillies win World Series in a given year),***

**AND**

***P(Eagles win Superbowl in a given year| Phillies win World Series in a given year) = P(Eagles win Superbowl in a given year)***

**Also assume that P(Phillies win World Series) = 0.03 and P(Eagles win Superbowl) = 0.02.**

**Because the two events are independent:**

***P(Phillies win AND Eagles win in a given year) = P(Phillies win)\*P(Eagles win) = 0.03\*0.02 = 0.0006.***

**Now let’s assume that the Flyers winning the Stanley Cup is independent of the Phillies winning the World Series and the Eagles winning the Superbowl. Also assume that *P(Flyers winning the Stanley Cup) = 0.05.* then the probability of all 3 teams winning in a given year is:**

***P(Phillies AND Eagles AND Flyers win in a given year) = P(Phillies win)\*P(Eagles win)\*P(Flyers win) = 0.03\*0.02\*0.05=0.00003.***

**TOUGH LUCK ☹**