In the Olympic Games, it is believed that 5% of sprinters are taking anabolic steroids. A test is developed that gives a positive result for an athlete who <u>has</u> taken anabolic steroids in the last month in 90% of cases. The test gives a positive result for an athlete who <u>has not</u> taken anabolic steroids in the last month in 15% of cases. A sprinter in chosen at random.

a) Find the probability that she/he tests positive anabolic steroids

b) Given that the athlete tests positive, find the probability that the athlete has taken anabolic steroids in the last month.



ONLY 24% or sprinters who have tested positive for anabolic steroids have actually taken them in the last month!

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