AP STATS	Name	
Extra Review Chapter 6 Test	Date	Hour
A professional soccer player succeeds in scoring a goal on 84% of his penalty kicks. Assume that the success of each kick is independent. (a) In a series of games, what is the probability that the first time he <u>fails</u> to score a goal is on his fifth penalty kick?		
(b) What is the probability that he sco	ores on 5 or fewer of his next 10 pe	enalty kicks?

(c) Suppose that our soccer player is out of action with an injury for several weeks. When he returns, he only scores on 5 of his next 10 penalty kicks. Is this evidence that his success

rate is now less than 84%? Explain.