

1. Suppose that if we select a random athlete at a small college, the probability that they are on the track team is 0.16, the probability that they are on the cross country team is 0.06 and the probability that they are on neither the cross country team nor the track team is 0.80. What is the probability that a randomly selected athlete is
 - (a) on the track team or the cross-country team?
 - (b) on the track team but not on the cross country team?
 - (c) on the cross-country team, given that they are on the track team?