

1). A sports commentator claims that 45% of all football injuries are knee injuries. If this claim is true, what is the probability that in a game with 5 reported injuries:

a). at least 1 is a knee injury?

b). exactly 3 are knee injuries?

c). more than 2 are knee injuries?

d). none are knee injuries?

2) In Toronto, Canada, 55% of people pass the drivers' road test. Suppose that 100 people take the test.

a) What is the number of people who are expected to pass?

b) What is the standard deviation for the number expected to pass?

c) What is the probability that exactly 85 people passed?

d) What is the probability that 38 or more passed?

e) What is the probability that less than 50 passed?

f) What is the probability that at least 49 passed?