Qn:

After an introductory statistics course, 80% of students can success-

fully construct box plots. Of those who can construct box plots, 86% passed, while only 65% of

those students who could not construct box plots passed.

(b) Calculate the probability that a student is able to construct a boxplot if it is known that he

passed.

(a)

Can construct

box plots?

Passed?

yes, 0.8

Yes, 0.86

0.8\*0.86 = 0.688

No, 0.14

0.8\*0.14 = 0.112

no, 0.2

Yes, 0.65

0.2\*0.65 = 0.13

No, 0.35

0.2\*0.35 = 0.07

(b) 0.84