1.

Be positive = .98\*.005 + .1\*.995 = .1044

2.

Correctly diagnose a sufferer of Thripshaw’s = .98

3.

Correctly identify a non-sufferer of Thripshaw’s = .9

4.

Misclassify the person= 1 – (the probability of correctly diagnosing a person with Thripshaw + the probability of correctly diagnosing a person who does not have Thripshaw’s) =1-(.98\*.005 + .9\*.995)=.0996