**Sensitivity** = P(test +|disease) = 29/33 = 0.88 (Among those who had lung cancer, the probability of a positive screening test was 0.88 or 88%.)

**Specificity** = P(test -|disease free) = 1074/1167 = 0.92 (Among those who did not have lung cancer, the probability of a negative screening test was 0.92 or 92%.)

**False negative fraction**= P(test -|disease) = 4/33 = 0.12 (Among those with lung cancer, the probability of a falsely negative screening test was 0.12 or 12%.)

**False positive fraction**=P(test +|disease free) = 93/1167 = 0.08 (Among those without lung cancer the probability of a falsely positive screening test was 0.08 or 8%.

**Positive predictive value** =P(disease |test +) = 29/122 =0.24 (Among those with a positive screening test, the probability of actually having lung cancer was 0.24 or 24%.)

**Negative predictive value** = P(disease free | test -) = 1074/1078 = 0.9962 or 99.6% (Among those with a negative test, the probability of not having lung cancer is 99.6%.)