

25. A blood test indicates the presence of a particular disease 95% of the time when the disease is actually present. The same test indicates the presence of the disease 0.5% of the time when the disease is not present. One percent of the population actually has the disease.

Calculate the probability that a person has the disease given that the test indicates the presence of the disease.

- (A) 0.324
- (B) 0.657
- (C) 0.945
- (D) 0.950
- (E) 0.995