

## Answer on Question #69226 – Math – Statistics and Probability

### Question

A certain disease is spread by only direct contact. The probability of a healthy person to get infect by a single direct contact is 0.02. What is the chance that a healthy person gets infected with the disease by the fourth time he comes into contact with an infected person (assume contact with the other person is independent)?

### Solution

$$P = 1 - 0.98^4 \approx 0.0776.$$

**Answer:** 0.0776.