## Answer on Question \#54402 - Math - Algebra

The chance of getting a particular disease sometime during your lifetime is estimated at 1 in 25.
Smoking increases the risk of developing the disease during your lifetime by $10 \%$.
How many people out of a group of 1000 smokers would you expect to get the disease sometime during their lifetime?

Enter your answer as a whole.

## Solution

$$
n=\frac{1}{25} \cdot\left(1+\frac{10}{100}\right) 1000=\frac{1.1 \cdot 1000}{25}=(1.1 \cdot 10) \cdot \frac{100}{25}=11 \cdot 4=44
$$

Answer: 44.

