$$P(A|B) = \frac{P(B|A) \cdot P(A)}{P(B)}$$

C - cutremur
i - incendiu
A - alarma

$$P(C|A) = \frac{P(A|C) \cdot P(C)}{P(A)}$$

$$P(C|A) = \frac{0,02 \cdot 0,0005}{0,01} = \cancel{0,00001 = 0,01\%}$$

$$P(i|A) = \frac{P(A|i) \cdot P(i)}{1 - P(A)} = \frac{0,95 \cdot P(i)}{\cancel{1 - 0,01}}$$

~~P(A)=~~

$P(A|C) = 2\%$

$P(A) = 0,01\%$

$P(A|i) = 95\%$