1. Bayesian Inference

a) 
$$P(A|a) = P(a|A) \times P(A)$$

$$P(a)$$

$$0.80 \times 0.85$$

$$(0.68 + 0.03) = \frac{0.68}{0.71} = 95\%$$

b) 
$$P(A|b) = P(b|A) \times P(A)$$
 $P(b)$ 

$$0.5862$$
 :  $(0.2) \times (0.85)$   $0.17 = 58.67$ 





