

concepcion, King David

$$P(F) = 0.90$$

$$P(M) = 0.10$$

$$P(R|F) = 0.08$$

$$P(R|M) = 0.95$$

$$= \frac{P(R|M) \cdot P(M)}{P(R|M) \cdot P(M) + P(R|F) \cdot P(F)}$$

$$= \frac{(0.95)(0.1)}{(0.95)(0.1) + (0.08)(0.9)}$$

$$= 0.2203 \text{ or } 22.03\%$$