$$P(A \cap B) = P(A) \cdot P(B|A)$$

$$[Prob A \text{ and } B] = [Prob A] \times [Prob B \text{ given } A]$$

$$P(A \cap B) = P(B \cap A)$$

$$P(B) \cdot P(A|B) = P(A) \cdot P(B|A)$$

$$P(A|B) = P(A) \cdot P(B|A)$$

$$P(A|B) = P(A) \cdot P(B|A)$$

$$P(B) = P(B)$$

$$P(B) = P(B)$$

VANILLA: 30 V

CHOCOLATE: 10 C

P(B₁) =
$$\frac{1}{2}$$

P(V | B₁) = $\frac{36}{40}$ = $\frac{3}{4}$

PRIOR

P(B₁) = $\frac{3}{4}$

P(V | B₁) = $\frac{3}{4}$

P(V | B₁) = $\frac{3}{4}$

P(DATA | 1970)

P(DATA)

P(DATA)

P(DATA)

= .6