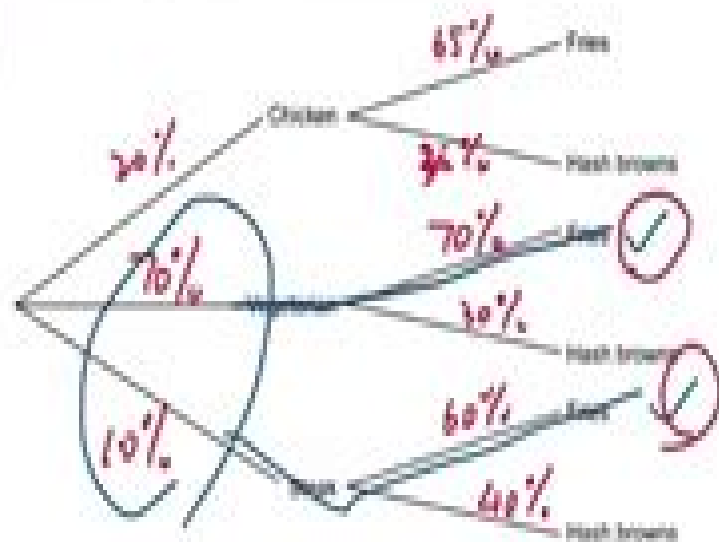




- (a) Complete the tree diagram by adding the respective probabilities to each branch. (2)
- (b) Find the probability that a randomly selected customer orders fries. (2)
- (c) Find the probability that a randomly selected customer orders fries given that they do not order a chicken omelette. (1)

$$P(\text{fries}) = 20\% \times 65\% + 70\% \times 70\% + 10\% \times 60\%$$

$$= 0.2 \times 0.65 + 0.7 \times 0.7 + 0.1 \times 0.6$$

$$= 0.13 + 0.49 + 0.06 = 0.68$$

c) $P(A|B) = P(\text{fries} | \text{X chicken})$

$$= \frac{P(A \cap B)}{P(B)}$$

$$P(\text{X chicken})$$

$$70\% \times 70\% + 10\% \times 60\%$$

$$70\% + 10\%$$

$$P(\text{X chicken} | \text{fries}) = \frac{P(\text{X chicken} \cap \text{fries})}{P(\text{fries})}$$

$$= \frac{70\% \times 70\% + 10\% \times 60\%}{0.68}$$

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SB Merriam

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'SB Merriam' text.

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