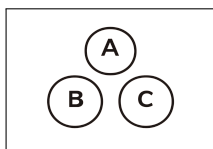


9

Discrete Distribution
Conditional Probabilities

C



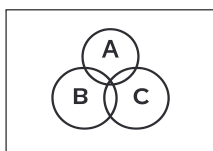
$$H = 60$$

$$U = 100$$

$$P(M \cap H) = 0.10$$

$$P(H) = 60/100 = 0.60$$

$$P(M|H) = ?$$



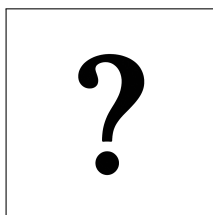
$$H = 60$$

$$U = 100$$

$$P(M \cap H) = 0.10$$

$$P(H) = 60/100 = 0.60$$

$$P(M|H) = P(M \cap H)/P(H) = 0.10/0.60 = 1/6 \approx 0.17$$



$$P(A) = 0.30$$

$$P(B) = 0.40$$

$$P(A \cap B) = 0.10$$

$$P(A|B) = ?$$

9

Discrete Distribution
Conditional Probabilities

C



$$P(A) = 0.30$$

$$P(B) = 0.40$$

$$P(A \cap B) = 0.10$$

$$P(A|B) = ?$$

$$P(A|B) = P(A \cap B) / P(B) = \frac{0.10}{0.40} = 0.25$$