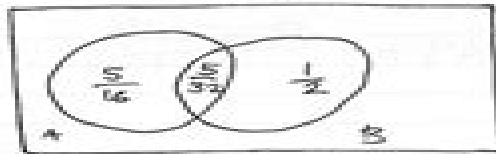


# Probability - Venn Diagrams

Dan Locke

1.



$U$

$$P(A) = \frac{5}{16}$$

$$P(B) = \frac{1}{2}$$

$$P(A|B) = \frac{1}{4}$$

a).  $P(A \cap B) = \frac{5}{32} \times \frac{1}{2} = \frac{5}{64}$

b).  $P(B'|A) = 1 - \left( \frac{\left( \frac{5}{32} \right)}{\left( \frac{5}{16} \right)} \right) = \frac{1}{2}$

$$P(B|A) = \frac{P(A \cap B)}{P(A)}, \therefore P(B'|A) = 1 - P(B|A)$$

c).  $P(A \cup B) = P(A) + P(B) - P(A \cap B)$

$$\therefore P(A' \cup B) = P(A') + P(B) - P(A' \cap B)$$

$$P(A') = 1 - \frac{5}{16} = \frac{11}{16}$$

$$P(A' \cap B) = \frac{11}{16} \times \frac{1}{2} = \frac{11}{32}$$

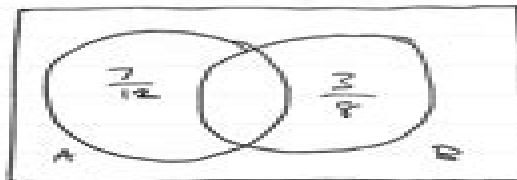
$$P(A' \cup B) = \frac{11}{16} + \frac{1}{2} - \frac{11}{32} = \frac{27}{32}$$

d).  $P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{\left( \frac{5}{16} \times \frac{1}{2} \right)}{\left( \frac{1}{2} \right)} = \frac{5}{16}$

$$P(A) = \frac{5}{16}$$

$$P(A|B) = P(A), \therefore \text{they are independent.}$$

2.



$U$

a).  $P(A|B) = \frac{P(A \cap B)}{P(B)} \therefore P(B) = \frac{P(A \cap B)}{P(A|B)}$

$$P(B) = \frac{\left( \frac{1}{4} \right)}{\left( \frac{2}{3} \right)} = \frac{3}{8}$$

b).  $P(A \cup B) = P(A) + P(B) - P(A \cap B) = \frac{7}{12} + \frac{3}{8} - \frac{1}{4} = \frac{17}{24}$

# Mei S1 Conditional Probability Solutions

**AW Rasmussen**



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