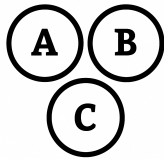


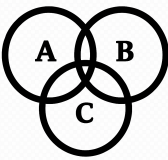
A

Complementary Event

A



$$S = \{1, 2, 3, 4, 5, 6, 7, 8\}$$
$$A = \{1, 2\}$$



$$P(A) = |A|/|S| = 2/8 = 0.25$$
$$P(A^C) = 1 - P(A) = 0.75$$

?

$$P(A) = 0.22$$
$$P(B) = 0.35$$
$$P(A \cap B) = 0.00$$
$$P(A \cup B) = ?$$

A Complementary Event A



$$P(A) = 0.22$$

$$P(B) = 0.35$$

$$P(A \cap B) = 0.00$$

$$P(A \cup B) = P(A) + P(B) = 0.22 + 0.35 = 0.57$$