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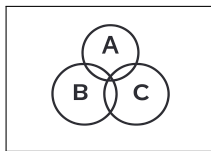
Discrete Distribution
Complementary Event

B



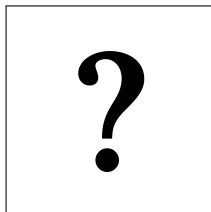
$$S = \{1, 2, 3, 4, 5, 6, 7, 8\}$$

$$A = \{1, 2\}$$



$$P(A) = |A|/|S| = 2/8 = 0.25$$

$$P(A^C) = 1 - P(A) = 0.75$$



$$P(M) = 0.20$$

$$P(E) = 0.15$$

$$P(M \cap E) = 0.03$$

$$P(M \cup E) = ?$$

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Discrete Distribution
Complementary Event

B



$$P(M) = 0.20$$

$$P(E) = 0.15$$

$$P(M \cap E) = 0.03$$

$$P(M \cup E) = P(M) + P(E) - P(M \cap E) = 0.20 + 0.15 - 0.03 = 0.32$$