

6

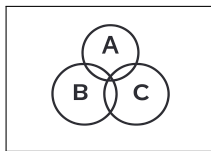
Discrete Distribution
Classic Probability

F

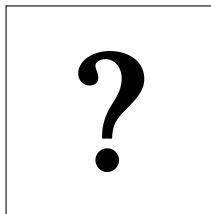


$$S = \{1, 2, 3, 4, 5, 6\}$$

$$E = \{1, 2, 3\}$$



$$P(E) = |E|/|S| = 3/6 = 0.5$$



$$U = 100$$

$$S = 30$$

$$I = 25$$

$$(S \cup I)^C = 55$$

$$P(S/I) = ?$$

6

Discrete Distribution
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F

?

$$U = 100$$

$$S = 30$$

$$I = 25$$

$$(S \cup I)^C = 55$$

$$P(S/I) = ?$$

$$|S \cup I| = |U| - |(S \cup I)^C| = 100 - 55 = 45$$

$$|S \cap I| = |S| + |I| - |S \cup I| = 30 + 25 - 45 = 10$$

$$P(S/I) = |S \cap I|/|I| = 10/25 = 2/5 = 0.40$$