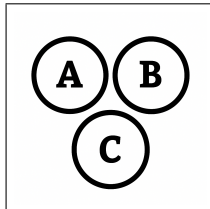


# F

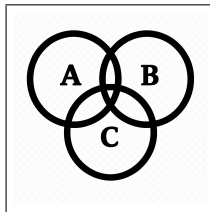
## Odds and Probability

# F



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

$$T = \{1\}$$



$$P(T) = \frac{|T|}{|S|} = \frac{1}{4} = 0.25$$

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

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$$\frac{|T|}{|T^C|} = \frac{|E|}{|S|} \times \frac{|S|}{|E^C|} = \frac{P(E)}{P(E^C)} = \frac{P(E)}{1 - P(E)}$$

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$$a : b \rightarrow \frac{a}{a+b} = \frac{ak}{ak+bk} = \frac{|E|}{|E|+|E^C|} = \frac{|E|}{|S|} = P(E)$$



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

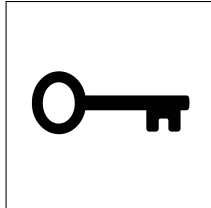
$$T = \{1\}$$

$$a : b(T) = ?$$

**F**

## Odds and Probability

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**F**

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

$$T = \{1\}$$

$$a : b(T) = |T| : (|S| - |T|) = 1 : 5$$