

Warm - Up

When flipping a coin:

$P(\text{head})$

$P(\text{tail})$

$P(\text{head or tail})$

Compound events:

Consider having 2 bags of marbles

bag 1: 2 black, 2 blue

bag 2: 3 red, 1 green

$P(\text{blue from (1) and red (2)})$

"and" and independent events

If A and B are independent events:

$$P(A \text{ and } B) = P(A) \times P(B)$$

Dependent Events: Events where the occurrence of one event affects the result of the other event.

Example: A box has 4 red and 2 blue tickets:

$P(\text{both red})$

$P(\text{red then yellow})$

Homework:

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