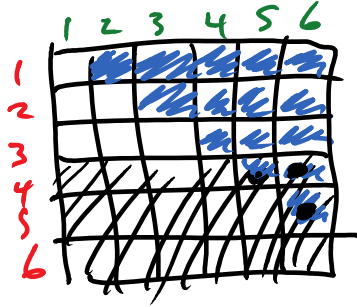


# Examples Conditional Probability



Let  $B$  be the event green result  $>$  red result

Let  $A$  be the event that red die shows  $\geq 4$

$$P(A|B) = \frac{3}{15} \Rightarrow P(A^c|B) = \frac{12}{15}$$

$$P(A|B^c) = \frac{15}{21} \Rightarrow P(A^c|B^c) = \frac{6}{21}$$

$$P(B|A) = \frac{3}{18} \Rightarrow P(B^c|A) = \frac{15}{18}$$

$$P(B|A^c) = \frac{12}{18} \Rightarrow P(B^c|A^c) = \frac{6}{18}$$