Section 4.5 — Summary

Name	Math symbol	Meaning	Simple events	Picture
union	$A \cup B$	either A <u>or</u> B or both occurs	all outcomes in A <u>or</u> B or both	
intersection	$A \cap B$	both A <u>and</u> B occurs	all outcomes in A <u>and</u> B	
complement	A^c	A did not occur	all outcomes not in A	

and these have probabilities....

$P(A^c) =$ (complement rule)

$P(A \cup B) =$ (union rule)

1