

# The whole sample

Possibility	Observations:	●	○	●	●	●	○	●	○	●
[○○○○○]		0	0	0	0	0	0	0	0	$0 = 0^6 \times 4^3$
[●○○○○]		1	3	3	3	3	9	9	27	$27 = 1^6 \times 3^3$
[●●○○○]		2	4	8	16	32	64	128	256	$512 = 2^6 \times 2^3$
[●●●○○]		3	3	9	27	81	81	243	243	$729 = 3^6 \times 1^3$
[●●●●○]		4	0	0	0	0	0	0	0	$0 = 4^6 \times 0^3$

Ways for  $p$  to produce  $W, L = (4p)^W \times (4-4p)^L$