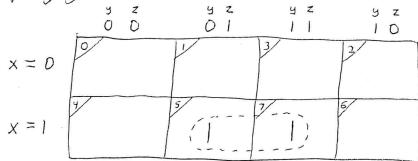
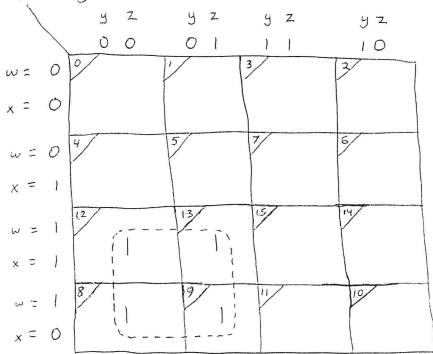
## Karnaugh Maps

For simplifying 3-variable functions



ex. Suppose we have  $\Sigma(5,7)$  shown above. 5=101 what do they have in common? 7=1111 x=1 and z=1, so the term is xz.

For simplifying 4-variable functions



ex. Suppose we have  $\Sigma(8,9,12,13)$  8 = 1000 9 = 1001 what do these have in common? 12 = 1100 w = 1 and y = 0, so the term is wy'.