

$F(A, B, C, D) = \sum(1, 2, 3, 4, 5, 7, 9, 11, 12, 13, 14, 15)$ using K-Map

		$C'D'$	$C'D$	CD	CD'
		00	01	11	10
$A'B'$	00		1	1	1
$A'B$	01	1	1	1	
AB	11	1	1	1	1
AB'	10		1	1	

$F = D$ (Purple Octet) + BC' (Blue Quad) + AB (Green Quad) + $A'B'C$ (Yellow Pair)

$F = D + BC' + AB + A'B'C$