

Two variable Karnaugh map (4 minterms/squares):

$a \backslash b$	0	1
0	$m_0 = a'b'$	$m_1 = a'b$
1	$m_2 = ab'$	$m_3 = ab$

Three variable Karnaugh map (8 minterms/squares):

$a \backslash bc$	00	01	11	10
0	$m_0 = a'b'c'$	$m_1 = a'b'c$	$m_3 = a'bc$	$m_2 = a'bc'$
1	$m_4 = ab'c'$	$m_5 = ab'c$	$m_7 = abc$	$m_6 = abc'$

Four variable Karnaugh map (16 minterms/squares):

$ab \backslash cd$	00	01	11	10
00	$m_0 = a'b'c'd'$	$m_1 = a'b'c'd$	$m_3 = a'b'cd$	$m_2 = a'b'cd'$
01	$m_4 = a'bc'd'$	$m_5 = a'bc'd$	$m_7 = a'bcd$	$m_6 = a'bcd'$
11	$m_{12} = abc'd'$	$m_{13} = abc'd$	$m_{15} = abcd$	$m_{14} = abcd'$
10	$m_8 = ab'c'd'$	$m_9 = ab'c'd$	$m_{11} = ab'cd$	$m_{10} = ab'cd'$

Five variable Karnaugh map (32 minterms/squares):

<i>ab\cde</i>	000	001	011	010	110	111	101	100
00	$m_0 = a'b'c'd'e'$	$m_1 = a'b'c'd'e$	$m_3 = a'b'c'de$	$m_2 = a'b'c'de'$	$m_6 = a'b'cde'$	$m_7 = a'b'cde$	$m_5 = a'b'cd'e$	$m_4 = a'b'cd'e'$
01	$m_8 = a'bc'd'e'$	$m_9 = a'bc'd'e$	$m_{11} = a'bc'de$	$m_{10} = a'bc'de'$	$m_{14} = a'bcde'$	$m_{15} = a'bcde$	$m_{13} = a'bcd'e$	$m_{12} = a'bcd'e'$
11	$m_{24} = abc'd'e'$	$m_{25} = abc'd'e$	$m_{27} = abc'de$	$m_{26} = abc'de'$	$m_{30} = abcde'$	$m_{31} = abcde$	$m_{29} = abcd'e$	$m_{28} = abcd'e'$
10	$m_{16} = ab'c'd'e'$	$m_{17} = ab'c'd'e$	$m_{19} = ab'c'de$	$m_{18} = ab'c'de'$	$m_{22} = ab'cde'$	$m_{23} = ab'cde$	$m_{21} = ab'cd'e$	$m_{20} = ab'cd'e'$

Six variable Karnaugh map (64 minterms/squares):

<i>abc\def</i>	000	001	011	010	110	111	101	100
000	m_0	m_1	m_3	m_2	m_6	m_7	m_5	m_4
001	m_8	m_9	m_{11}	m_{10}	m_{14}	m_{15}	m_{13}	m_{12}
011	m_{24}	m_{25}	m_{27}	m_{26}	m_{30}	m_{31}	m_{29}	m_{28}
010	m_{16}	m_{17}	m_{19}	m_{18}	m_{22}	m_{23}	m_{21}	m_{20}
110	m_{48}	m_{49}	m_{51}	m_{50}	m_{54}	m_{55}	m_{53}	m_{52}
111	m_{56}	m_{57}	m_{59}	m_{58}	m_{62}	m_{63}	m_{61}	m_{60}
101	m_{40}	m_{41}	m_{43}	m_{42}	m_{46}	m_{47}	m_{45}	m_{44}
100	m_{32}	m_{33}	m_{35}	m_{34}	m_{38}	m_{39}	m_{37}	m_{36}