

Question 1: Fill in the missing entries for the expression: not (A and B and not C and D)

A	B	C	D	Q
0	0	0	0	?
0	0	0	1	1
0	0	1	0	?
0	0	1	1	1
0	1	0	0	1
0	1	0	1	?
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	?
1	0	1	1	?
1	1	0	0	?
1	1	0	1	?
1	1	1	0	1
1	1	1	1	?

Answer:

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	0
1	1	1	0	1
1	1	1	1	1

Question 2: Fill in the missing entries for the expression: A and not B and not C and not D

A	B	C	D	Q
0	0	0	0	0
0	0	0	1	?
0	0	1	0	?
0	0	1	1	?
0	1	0	0	0
0	1	0	1	0
0	1	1	0	?
0	1	1	1	0
1	0	0	0	?
1	0	0	1	0
1	0	1	0	0
1	0	1	1	?
1	1	0	0	?
1	1	0	1	?
1	1	1	0	0
1	1	1	1	0

Answer:

A	B	C	D	Q
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0
1	0	0	0	1
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

Question 3: Fill in the missing entries for the expression: A and B and not C

A	B	C	Q
0	0	0	?
0	0	1	?
0	1	0	0
0	1	1	0
1	0	0	?
1	0	1	0
1	1	0	?
1	1	1	0

Answer:

A	B	C	Q
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

Question 4: Fill in the missing entries for the expression: not (A or B or not C or D and E)

A	B	C	D	E	Q
0	0	0	0	0	1
0	0	0	1	0	1
0	0	1	0	0	1
0	0	1	1	0	1
0	1	0	0	0	1
0	1	0	1	0	1
0	1	1	0	0	1
0	1	1	1	0	1
1	0	0	0	0	0
1	0	0	1	0	0
1	0	1	0	0	0
1	0	1	1	0	0
1	1	0	0	0	0
1	1	0	1	0	0
1	1	1	0	0	0
1	1	1	1	0	0
1	0	0	0	1	0
1	0	0	1	1	0
1	0	1	0	1	0
1	0	1	1	1	0
1	1	0	0	1	0
1	1	0	1	1	0
1	1	1	0	1	0
1	1	1	1	1	0

Answer:

A		B		C		D		E		F
1		1		1		1		1		0
2		1		1		0		0		0
3		0		1		1		1		0
4		0		1		1		1		0
5		0		1		1		1		0
6		0		1		1		1		0
7		0		1		1		1		0
8		0		1		1		1		0
9		0		1		1		1		0
10		0		1		1		1		0
11		0		1		1		1		0
12		0		1		1		1		0
13		0		1		1		1		0
14		0		1		1		1		0
15		0		1		1		1		0
16		0		1		1		1		0
17		0		1		1		1		0
18		0		1		1		1		0
19		0		1		1		1		0
20		0		1		1		1		0
21		0		1		1		1		0
22		0		1		1		1		0
23		0		1		1		1		0
24		0		1		1		1		0
25		0		1		1		1		0
26		0		1		1		1		0
27		0		1		1		1		0
28		0		1		1		1		0
29		0		1		1		1		0
30		0		1		1		1		0
31		0		1		1		1		0
32		0		1		1		1		0
33		0		1		1		1		0
34		0		1		1		1		0
35		0		1		1		1		0
36		0		1		1		1		0
37		0		1		1		1		0
38		0		1		1		1		0
39		0		1		1		1		0
40		0		1		1		1		0
41		0		1		1		1		0
42		0		1		1		1		0
43		0		1		1		1		0
44		0		1		1		1		0
45		0		1		1		1		0
46		0		1		1		1		0
47		0		1		1		1		0
48		0		1		1		1		0
49		0		1		1		1		0
50		0		1		1		1		0
51		0		1		1		1		0
52		0		1		1		1		0
53		0		1		1		1		0
54		0		1		1		1		0
55		0		1		1		1		0
56		0		1		1		1		0
57		0		1		1		1		0
58		0		1		1		1		0
59		0		1		1		1		0
60		0		1		1		1		0
61		0		1		1		1		0
62		0		1		1		1		0
63		0		1		1		1		0
64		0		1		1		1		0
65		0		1		1		1		0
66		0		1		1		1		0
67		0		1		1		1		0
68		0		1		1		1		0
69		0		1		1		1		0
70		0		1		1		1		0
71		0		1		1		1		0
72		0		1		1		1		0
73		0		1		1		1		0
74		0		1		1		1		0
75		0		1		1		1		0
76		0		1		1		1		0
77		0		1		1		1		0
78		0		1		1		1		0
79		0		1		1		1		0
80		0		1		1		1		0
81		0		1		1		1		0
82		0		1		1		1		0
83		0		1		1		1		0
84		0		1		1		1		0
85		0		1		1		1		0
86		0		1		1		1		0
87		0		1		1		1		0
88		0		1		1		1		0
89		0		1		1		1		0
90		0		1		1		1		0
91		0		1		1		1		0
92		0		1		1		1		0
93		0		1		1		1		0
94		0		1		1		1		0
95		0		1		1		1		0
96		0		1		1		1		0
97		0		1		1		1		0
98		0		1		1		1		0
99		0		1		1		1		0
100		0		1		1		1		0

Question 5: Fill in the missing entries for the expression: A or B

A	B	Q
0	0	?
0	1	?
1	0	1
1	1	1

Answer:

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

Question 6: Fill in the missing entries for the expression: A and B or C and D

A	B	C	D	Q
0	0	0	0	?
0	0	0	1	?
0	0	1	0	0
0	0	1	1	?
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	?
1	0	0	0	0
1	0	0	1	?
1	0	1	0	0
1	0	1	1	1
1	1	0	0	?
1	1	0	1	1
1	1	1	0	?
1	1	1	1	?

Answer:

A	B	C	D	Q
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	1
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

Question 7: Fill in the missing entries for the expression: not (A or B and not C and D)

A	B	C	D	Q
0	0	0	0	?
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	?
0	1	0	1	?
0	1	1	0	1
0	1	1	1	?
1	0	0	0	?
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	?
1	1	1	0	?
1	1	1	1	?

Answer:

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	0
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

Question 8: Fill in the missing entries for the expression: A and B

A	B	Q
0	0	0
0	1	0
1	0	?
1	1	?

Answer:

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1

Question 9: Fill in the missing entries for the expression: A or not B or C or D

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	?
0	0	1	1	?
0	1	0	0	?
0	1	0	1	1
0	1	1	0	1
0	1	1	1	?
1	0	0	0	?
1	0	0	1	1
1	0	1	0	?
1	0	1	1	?
1	1	0	0	1
1	1	0	1	1
1	1	1	0	?
1	1	1	1	1

Answer:

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

Question 10: Fill in the missing entries for the expression: not (A and not B and not C or D)

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	0
0	0	1	0	?
0	0	1	1	?
0	1	0	0	1
0	1	0	1	?
0	1	1	0	1
0	1	1	1	0
1	0	0	0	0
1	0	0	1	?
1	0	1	0	?
1	0	1	1	0
1	1	0	0	?
1	1	0	1	0
1	1	1	0	?
1	1	1	1	?

Answer:

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	0
0	0	1	0	1
0	0	1	1	0
0	1	0	0	1
0	1	0	1	0
0	1	1	0	1
0	1	1	1	0
1	0	0	0	0
1	0	0	1	0
1	0	1	0	1
1	0	1	1	0
1	1	0	0	1
1	1	0	1	0
1	1	1	0	1
1	1	1	1	0