

Binary Arithmetic

Perform addition of the following binary numbers:

i) $1011 + 1100$ ii)

$11010 + 111$ iii)

$1111 + 10110$

iv) $1010101 + 11011$

v) $11101 + 10001$

vi) $10101100 + 1111$ vii)

$11001101 + 10000$ viii)

$111000 + 101010111$

ix) $110101101 + 1001011001$

x) $111110 + 1000110101$

Perform subtraction of the following binary numbers:

i) $1100 - 1011$ ii)

$11010 - 111$ iii)

$10110 - 1111$

iv) $1010101 - 11011$

v) $11101 - 10001$

Perform multiplication of the following binary numbers:

i) 10101×111

ii) 1101×101

iii) 1111×100

iv) 1010×110

v) 11011×111

Perform division of the following binary numbers:

i) $10101 / 111$

ii) $1101 / 101$

iii) $1111 / 100$

iv) $1010 / 110$

v) $11011 / 111$