

# MINI-QUIZ: BINARY CONVERSION OF UNSIGNED INTEGERS

| This short quiz is designed to test students understanding of unsigned integer conversion.

## FROM DECIMAL TO BINARY

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Convert the following decimal numbers to an unsigned integer binary encoding:

- 4
- 105
- 255

## FROM BINARY TO DECIMAL

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Convert the following unsigned integer binary encoded values into decimal numbers:

- 0
- 1
- 10
- 11
- 1101100
- 1010101

## BINARY ADDITION

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Add these two binary numbers and determine the result by doing the addition "in binary". Convert each number and check that the result matches your expectation.

11111111 + 00001101 = ??

If my registers are only 8 bits wide, what is the value returned from that binary addition? How is this related to the concept of overflow?