Do Now: Change

1. 10010 in base 2 to base 10

2. 89 in base 10 to a binary number

How do we **add** *two binary numbers*?

Ex. 01101

+ 10111

- Add the numbers as you usually would

2. Remember to carry where appropriate

3. If the answer comes out to a:

    a. 2 – then write a 0 and carry a one

    b. 3 – then write a 1 and carry a 1

- Add the following numbers in base 2:

1. 10102. 1113. 101
   +1111 +111 +110

How do we **subtract** *two binary numbers*?

Ex. 11101
+ 10111

- Subtract the numbers as you usually would

2. If you need to borrow – a 10 yields a 1

1. 10102. 1113. 101
-1111 - 111 - 110