**Binary to Decimal**

**Convert 10010110 to Decimal**

# Only add up the 2^# under the 1s

**1 0 0 1 0 1 1 0**

128 + 16 + 4 + 2 = 150

#**Answer**: 150

**Decimal to Binary**

**Convert 50 to Binary**

#Keep diving by 2 until you reach **1** and collect all the remainders.

Remainder

50 / 2 = 25 0

25 / 2 = 12 1

12 / 2 = 6 0

6 / 2 = 3 0

3 / 2 = 1 1

1 / 2 = 1 1

#**Answer**: 110010