



## Zweiersystem

15 Min / \*\*

### 1. Aufgabe

Schreibe im Dezimalsystem

- a)  $11011 = 1 + 2 + 8 + 16 = 27$
- b)  $01101 = 2^0 + 2^2 + 2^3 = 1 + 4 + 8 = 13$
- c)  $11110111 = 2^7 + 2^6 + 2^5 + 2^4 + 2^2 + 2^1 + 2^0 = 247$
- d)  $010111 = 2^4 + 2^2 + 2^1 + 2^0 = 16 + 4 + 2 + 1 = 23$
- e)  $1100011 = 2^6 + 2^5 + 2^1 + 2^0 = 64 + 32 + 2 + 1 = 99$

### 2. Aufgabe

Schreibe im Binärsystem

- a)  $47 = 32 + 8 + 4 + 2 + 1 = 101111$
- b)  $66 = 64 + 2 = 2^6 + 2^1 = 1000010$
- c)  $100 = 64 + 32 + 4 = 1100100$
- d)  $150 = 128 + 16 + 4 + 2 = 10010110$
- e)  $247 = 128 + 64 + 32 + 16 + 4 + 2 + 1 = 11110111$
- f)  $200 = 128 + 64 + 8 = 11001000$