

# Exercises (solution)

1.  $27_{10}$   
 $121_{10}$
2.  $2255_{16}$   
 $11EC3_{16}$

The number  $233_{10}$  is equal to the following:

1.  $10101001_2$
2.  $11001001_2$
3.  $11111001_2$
4.  $11101001_2 \leftarrow$

The number  $233_8$  is equal to the following:

1.  $150_{10}$
2.  $164_{10}$
3.  $155_{10} \leftarrow$
4.  $159_{10}$

## Exercises (solution)

- $27_{10} \rightarrow 16+11 \rightarrow 0x1b \rightarrow 16+8+2+1 \rightarrow 11011_2$   
 $121_{10} \rightarrow 64+32+16+8+1 \rightarrow 1111001_2 \rightarrow 0111\ 1001 \rightarrow 0x79$
- $2255_{16} \rightarrow 0010\ 0010\ 0101\ 0101 \rightarrow 0\ 010\ 001\ 001\ 010\ 101 \rightarrow 21125_8$   
 $11EC3_{16} \rightarrow 0001\ 0001\ 1110\ 1100\ 0011 \rightarrow 00\ 010\ 001\ 111\ 011\ 000$   
 $011 \rightarrow 217303_8$

The number  $233_{10}$  is equal to the following:

- $10101001_2$
- $11001001_2$
- $11111001_2$
- $11101001_2 \leftarrow$

The number  $233_8$  is equal to the following:

- $150_{10}$
- $164_{10}$
- $155_{10} \leftarrow$
- $159_{10}$



## 16 Bit (unsigned) Integers

Range of values is:

$0_{10}$  :            0000000000000000

$65,535_{10}$  :        1111111111111111

## 32 Bit (unsigned) Integers

Range of values is:

$0_{10}$  :            00000000000000000000000000000000

$4,294,967,295_{10}$  : 11111111111111111111111111111111