

### Numeral System Conversions

Conversion	Method	Example
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### Binary Arithmetic

Operation	Rules	Example
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### Negative Numbers: Two's Complement

#### Method:

Invert all bits (1's complement).

Add 1 to the result.

#### Example:

$-5_{10}$  in 4-bit binary:

Step 1:  $5 = 0101 \rightarrow \text{Invert} \rightarrow 1010$ .

Step 2:  $1010 + 1 = 1011$  (represents -5).



By **MTMR**  
[cheatography.com/mtmr/](https://cheatography.com/mtmr/)

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