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Introduction To Digital Electronics – Lesson 2: Number Systems

HOMEWORK

The following homework questions are meant to go with the online lesson found here:
http://www.pyroelectro.com/edu/digital/number_systems/

HOMEWORK QUESTION 1

In decimal: $1_{(10)} + 1_{(10)} = ?_{(10)}$

In binary: $1_{(2)} + 1_{(2)} = ?_{(2)}$

HOMEWORK QUESTION 2

Add these two binary numbers together: $1010_{(2)} + 1000_{(2)} = ?_{(2)}$

Now, Subtract these two binary numbers: $1010_{(2)} - 1000_{(2)} = ?_{(2)}$

HOMEWORK QUESTION 3

Convert this binary value into decimal: $1110_{(2)} = ?_{(10)}$

Convert this decimal value into binary: $31_{(10)} = ?_{(2)}$

HOMEWORK QUESTION 4

How can LEDs represent binary numbers?

ADDITIONAL INFORMATION

To get feedback on your homework or to ask additional questions related to this lesson, please post your homework answers or your questions in the online forums at:
http://www.pyroelectro.com/forums/viewforum.php?f=21