

## Computer Number System Problems

1) Which of the following is the second smallest number? [ $'1722_8'$ ,  $'1000111100_2'$ ,  $'10000101001_2'$ ,  $'66E_{16}'$ ,  $'10100101110_2'$ ]

2) Express the following number in expanded form  $20_{11} =$

3)  $22_{16}$  converts to base 7

4) How many binary numbers have more 1s than 0s in the range of numbers from 52 to 60, inclusive in base 10?

5) A color has a red value of 24, a green value of 249, and a blue value of 85. What is its hexadecimal color code?

6)  $31A_{13} - A9_{13} - 52_{13} - 2B_{13} =$

7)  $6ECD_{16}$  in base 2 (Binary) =

8)  $1332F_{16}$  in base 2 (Binary) =

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9) What is the sum of the green and red components for the color #B0BDDC in decimal?

10) Which of the following is the largest number? [ $875_{10}$ ,  $32B_{14}$ ,  $154_{15}$ ,  $B07_{12}$ ,  $295_{13}$ ]

11) How many binary numbers have an equal number of 1s and 0s in the range of numbers from 44 to 54, inclusive in base 10?

12)  $371_{16} - 196_{16} - 3_{16} =$

13) Express the following number in expanded form  $1661_8 =$

14)  $1132_4$  converts to base 16