

Name: _____ Per: _____

Number Base Conversion

Homework 2: Non-decimal to Non-decimal

Write the numbers 0_{10} to 15_{10} in binary using 4 bits for the indicated number base.

	Binary	Octal	Hex(adecimal)
0			
I			
II			
III			
IV			
V			
VI			
VII			
VIII			
IX			
X			
XI			
XII			
XIII			
XIV			
XV			

Convert from base $_{10}$ to base $_2$

1. $12345_{10} = \underline{\hspace{2cm}}_2$

2. $11111_{10} = \underline{\hspace{2cm}}_2$

3. $127_{10} = \underline{\hspace{2cm}}_2$

Convert from base $_2$ to base $_{10}$

5. $0000\ 1010\ 1010_2 = \underline{\hspace{2cm}}_{10}$

6. $0101\ 0101\ 0101_2 = \underline{\hspace{2cm}}_{10}$

8. $0010\ 1010\ 1101_2 = \underline{\hspace{2cm}}_{10}$

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9. $1076_8 = \underline{\hspace{2cm}}_2$

10. $F08C_{16} = \underline{\hspace{2cm}}_2$

11. $101011_2 = \underline{\hspace{2cm}}_8$

14. $10F81_{16} = \underline{\hspace{2cm}}_8$

15. $1717_7 = \underline{\hspace{2cm}}_{14}$

16. $3203_4 = \underline{\hspace{2cm}}_8$

17. $35072_8 = \underline{\hspace{2cm}}_{16}$

18. $101100111010110_2 = \underline{\hspace{2cm}}_{16}$

19. $1011001010011_2 = \underline{\hspace{2cm}}_{16}$

22. $16142_8 = \underline{\hspace{2cm}}_{16}$

23. $2011_3 = \underline{\hspace{2cm}}_{12}$

24. $235_6 = \underline{\hspace{2cm}}_2$