

Hexadecimal Numbers

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Task 1

Convert the following numbers from Binary to Hexadecimal

Binary	Hexadecimal
10011000	
11011100	
00101111	
01010111	
11111111	

Task 2

Convert the following numbers from Hexadecimal to Binary

Hexadecimal	Binary
0A	
3D	
67	
CE	
B4	
B0B	

Task 3

Convert the following numbers from Denary to Hexadecimal

Denary	Hexadecimal
56	
23	
78	
99	
132	

Task 4

Convert the following numbers from Hexadecimal to Denary

Hexadecimal	Denary
2B	
30	
F1	
5E	
BC	

Task 5 Questions

Explain why Hexadecimal is used

Describe how colour codes are often represented by Hex numbers

EXT:

What do you think the 'place values' are for any given hex number? Explain.

There is also a numbering system called Octal (Base 8) which was designed for the same purpose as Hex but is rarely used

Can you speculate why this Hex was considered preferable to this system?

Convert the following denary numbers into Octal

Denary	Octal
56	
23	
78	
99	
132	