Binary/Hex Skills Review – CSP Name: Period:

128 64 32 16 8 4 2 1 0 1 2 3 4 5 6 7 8 9 A B C D E F

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Convert the following Binary (base-2) numbers into Decimal (base-10):

1. 11001100
2. 10011110
3. 11000111
4. 11110011
5. 01010101
6. 10101010
7. 01110001
8. 11111100
9. 11101101

Convert the following Decimal (base-10) numbers into Binary (base-2):

1. 234
2. 187
3. 67
4. 125
5. 39
6. 165
7. 214
8. 23
9. 199

Convert the following Binary (base-2) numbers into Hexadecimal (base-16):

1. 11010001
2. 00111100
3. 00100100
4. 10100101
5. 11110000
6. 10111101

Convert the following Hexadecimal (base-16) into Binary (base-2):

1. BE
2. DA
3. F8
4. AF
5. 91
6. E7

How many bits would be needed to represent the following amount of unique ID numbers?

1. 134 unique ID numbers
2. 17544 unique ID numbers
3. 84391 unique ID numbers