Bonus point assignment - week 1

Student number = 566780

Convert your student number to a hexadecimal number and a binary number.

Explain in detail that the calculation is correct. Use the PowerPoint slides of week 1.

My student number is 566780, in order to convert that into binary we keep dividing it to 2 until the point that the output would reach 0.

remainder = 0
remainder = 0
remainder = 1
remainder = 0
remainder = 1
remainder = 0
remainder = 0
remainder = 1
remainder = 0
remainder = 1
remainder = 0
remainder = 0
remainder = 0
remainder = 1

Now we write them from down to up: 100010100101111111100

In order to convert it to hexadecimal we do the same but divide it to 16:

566780/16 = 35423 remainder = 12/c 35423/16 = 2213 remainder = 15/f 2213/16 = 138 remainder = 5

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138/16 = 8 remainder = 10/a

8/16 = 0 remainder = 8

Result = 8A5FC

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