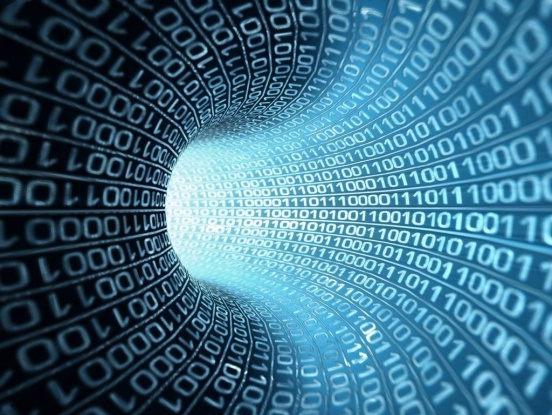
**Computer Science & Software Engineering**

**[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCI6Fifi26scCFY9ckgodozQCzg&url=http://csc.uis.edu/&psig=AFQjCNE59If2l10RKwcmLxqdehT_-gwGTg&ust=1441904172041886) Decimal to Hexadecimal Conversion**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_ Period \_\_\_\_\_

Technology Education Dept

Pittsford Central Schools

**Procedure**

One method to convert a decimal number to a hexadecimal number is to divide the decimal number by the hexadecimal base number. The method is the same as converting from decimal to binary.

4610 = 2E16

46/16=2 (MSB) remainder 14 = E in hex (LSB)

2/16 = 0 remainder 2 = 2 (MSB)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HEXADECIMAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| DECIMAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

**Convert the following Decimal numbers to Hexadecimal:**

1. 149110 = 5D316

2. 6410 = 4016

3. 12410 = 7C16

4. 1610 = 1016

5. 25510 = FF16

6. 111610 = 45C16

7. 9310 = 5D16

8. 262010 = A3C16

9. 10110 = 6516

10. 15310 = 9916