**Task A – Answer the following questions. If you are stuck you can ask the person next to you for help**

|  |  |
| --- | --- |
| How many unique numbers do we use in Base 5? |  |
| How would we represent the number 7 in Base 5? |  |
| How many unique numbers do we use in Base 16? |  |
| How would you represent the number 20 in Base 16? |  |
| How could you represent the number 14 in Base 16? |  |

**Task B – Write out how each number is represented in Hexadecimal**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** |
| **1** | **2** | **3** | **4** | **5** |
| **6** | **7** | **8** | **9** | **10** |
| **6** | **7** | **8** | **9** | **A** |
| **11** | **12** | **13** | **14** | **15** |
| **B** | **C** | **D** | **E** | **f** |
| **16** | **17** | **18** | **19** | **20** |
| **10** | **11** | **12** | **13** | **14** |

**Task C – Use your answers above to convert these numbers**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Denary** |  | **Hexadecimal** | **Denary** |  | **Hexadecimal** |
| **4** | ⬄ | 4 | 10 | ⬄ | **A** |
| **14** | ⬄ | e | 17 | ⬄ | **11** |
| **18** | ⬄ | 12 | 43 | ⬄ | **2B** |

**Task D – Converting the following hexadecimal numbers into binary**

**6=110**

**A=1010**

**11=10001**

**A6=10100110**

**115=100010101**

|  |
| --- |
| **Why do you think Hexadecimal numbers are used in computing?** |
| **To minimize long binary numbers** |

**Task E - Convert the following Hexadecimal numbers into denary. If you are stuck you can convert them into binary first and then denary.**

**4C=76**

**26=38**

**DAD=3501**