Unit 1 – Worksheet 05 Name: _____

Converting Number Formats

Each problem gives you a particular number in a particular format.
Convert to the required format by hand. Show work (using a calculator is ok to calculate larger number).

1. $2344_{dec} \rightarrow ?_{hex}$
2. $1841_{dec} \rightarrow ?_{bin}$
3. $92_{dec} \rightarrow ?_{oct}$
4. $271_{oct} \rightarrow ?_{dec}$
5. $10011011_{bin} \rightarrow ?_{dec}$
6. $11000101_{bin} \rightarrow ?_{oct}$
7. $11100111_{bin} \rightarrow ?_{hex}$
8. $2EA_{hex} \rightarrow ?_{dec}$

8. $1367_{oct} \rightarrow ?_{hex}$

9. $125_{oct} \rightarrow ?_{bin}$

11. $9B_{hex} \rightarrow ?_{bin}$

12. $1CF_{hex} \rightarrow ?_{oct}$

13. In common colors for graphics it is possible to refer to different shades of colors using an RGB color system with decimal numbers. For example, (250, 10, 0) is a color. Colors can also be represented with a Hexadecimal representation #RRGGBB where each R, G, B component of the decimal representation is converted to a 2-digit Hexadecimal representation. Convert (250, 10, 51) to the proper hexadecimal #_ _ _ _ _ _ representation.