Number Structure

 $1.\ Develop\ rules\ for\ addition\ and\ multiplication\ table\ for\ hexadecimal.$

Symbols are 0 1 2 3 4 5 6 7 8 9 A B C D E F.

$$F=1610-1=1016-1$$

$$E=10-2$$

$$8+8=10$$

$$A=8+2$$
 $9=8+1$

- C = 8 + 4
- 2. Calculate the following:

3. Convert:

- to decimal and back 1EF₁₆=
- 4. Using cardinal numbers develop a system for our monetary system including quarters, \$2, and \$20 bills and show a table up to 200.
- 5. Do following by approximation in your head: 3701x15, 78x72, 123x148, 252x248,

- 7800.13x 7205.132
- 6. The rules for odd magic squares are:
 - 1. Start with one in middle top line.
 - 2. Move up along a right diagonal
 - 3. When off square, move to opposite end and place number.
 - 4. When blocked, drop vertically down and place number

(a corner counts as a block

Note sum of rows, columns, or diagonals = $n(n^2+1)/2$ where n is dimension of one side.

Finish 5x5 magic square



