## Quiz 2



This is a two-stage quiz. During the first stage, use your knowledge & calculator to take this quiz. You have 15 min. In the second stage, you are now welcome to use your books, notes, and students in the class to retake the same quiz. You have 15 min. to write one solution (with everyone's name on it!!!) to be turned in for the group.

Show your work as you would for a colleague. Partial credit requires reasonable support.
Consider the following sequence of figures:
(a) [2] What type of sequence (arithmetic, geometric, recursive, or none of these) is formed by the number of cubes in
is formed by the number of cubes in successive figures? Briefly justify yourself.
DE Coch me => or/hushe (3)
(b) [3] Find the number of cubes in the 10th figure.
the set pts addres 3 each time 1 chars 13/16/19/20/28
The second of th
god is ( the stand of algebrane ( the # choos = 3 ( fine #) -2
50 # chas for figure 10 = 3 (10) -2=28
2. Consider the number represented with 2 flats, 1 long, and 3 units shown below.
the positional notation for the given
base 55 laxslike vace to 5 2 hads 1 llog 1 3 mb
(F) £ 213
(b) [3] Translate the above number into another number system (Hindu-Arabic, Roman, Egyptian, Babylonian, a different base, etc). Clearly indicate which system.
Hordy-Awar 2 Albra 1 Mary + 3 Jans 1 (15) System which system.  (15) System wholes were 2 x 36 x 1 x 6 x 3 ] (15)
With the System work 2x36 * 1x6x3 ] (15)
72 +6+3 = (81) 30+ (1)