## MLCS 0099 University of North Georgia Summer 2015 Quiz #1

Quiz #1
Jame:Date:
1. List and describe the four steps of problem solving.
· Understand whe Troblem
- Re-read
- Drow Puture
- Guess a Possible
· Devise a Plan
- Determine what needs to be done.
· Carry out Plan
- Do she moth"
· Check your result
- Is the result answering the question?
<ol> <li>A frozen yogurt restaurant has chocolate and vanilla yogurt. For toppings it has nuts, sprinkles, or candy pieces. List all the possible combinations that use one flavor and one</li> </ol>
topping.

Cn, cs, C, c, vn, vs, ve

3. A binary number consists of only two digits: 0 and 1. If a binary number consists of eight digits, which is called a byte in computer terminology, how many possible combinations of eight digit binary numbers are possible? Show your work!

one passible & digit number:

1 1 1 1 1 1 1 1 1

So, 2 passible cligits: on, and eight state on m=8• 2 \* = 256 passible eight cligit Binary numbers.