1. What is Software Engineering:

_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________

2. Definitions:

• **Software**: programs and other operating information used by computers
• **Variable**: a combination of letters, numbers, and symbols that represents something else
• **Coding**: the process of writing computer programming

3. Questions:

• In this activity, are the numbers or letters acting as variables?

_______________________________________________________________________

• Why are variables used in coding?

_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________

• How many bits are in one byte?

__________________________

• Circle the Byte below:

0100100 011001 01110001
November Engineering Activity Worksheet

- **What is Software Engineering:**
  
  *Using problem solving skills to create and advance software primarily using coding.*

- **Definitions:**
  
  - **Software:** programs and other operating information used by computers
  - **Variable:** a combination of letters, numbers, and symbols that represents something else
  - **Coding:** the process of writing computer programming
  - **Bit:** smallest unit of data. Has a single binary value either 0 or 1.
  - **Byte:** there are 8 bits in one byte. 8 bits = 1 byte

- **Questions:**
  
  - In this activity, are the **numbers** or **letters** acting as variables?
    **Numbers**
  - Why are variables used in coding?
    *It makes it easier and quicker for the computer to read.*
  - How many bits are in one byte?
    **8**
  - Circle the Byte below:
    
    0100100 011001 01110001