

CS 125 – Introduction to Computer Science
Fall 2008

Assignment 02 – Understanding Computers: Introduction to World of Computers
Due Friday, Sept 12nd, in class.

Read the online handout “Converting from base 10.pdf” & chapter 2, “Processing & Memory”

Answer the following questions:

1. Convert the following decimal numbers to binary. Show your work (something similar to what is shown in the handout mentioned above) 2 pts each:
 - a. 7
 - b. 15
 - c. 27
 - d. 122
 - e. 1010

2. Convert the following binary numbers to decimal numbers. Show your work (something similar to what is shown in figure 2-3 from the text), 2 pts each:
 - a. 101010
 - b. 110011
 - c. 010001
 - d. 001001
 - e. 100010

3. List and briefly describe the four steps of the machine cycle. 20 pts total.

4. Compare & contrast the ALU & the FPU (5 pts).