# Exercise 2B: Chapter 1 Data Storage <br> Complete the following Chapter Review Problems on pages 73-77. 

\#1 (what is the output for each?)
$\square$
\#5 (what is in memory at the end? Please note the textbook uses the word move, but the word copy should have used instead for steps 1 and 3.)
$\square$
\#8 (what is the most significant bit?)
$\square$
\#19 and \#20 (ASCII in binary and hex. Please use the ASCII table at the back of your textbook.)
$\square$
\#26 (binary to base 10) - divide them up and do 3 each
\#27 (base 10 to binary) - work on these ones together
[Custom question 1] What is the largest 8-bit integer? What is the largest 10-bit integer? Describe a quick way to calculate the maximum value for a given number of bits.
$\square$
[Custom question 2] Perform each of the following 5-bit additions without converting to / from decimal. Identify each case in which the answer is incorrect because of overflow.


