Name:

Value: 2

Complete the following table concerning the smallest and largest integers that can be represented in an 8-bit configuration assuming an unsigned storage mode.

Decimal (Base 10)		Binary (Base 2)	
Smallest	Largest	Smallest	Largest
#1	#2	#3	#4

Complete the following table concerning the smallest and largest integers that can be represented in a 4-bit configuration assuming an unsigned storage mode.

Decimal (Base 10)		Binary (Base 2)	
Smallest	Largest	Smallest	Largest
#5	#6	#7	#8

Complete the following table concerning the smallest and largest integers that can be represented in a 5-bit configuration assuming an unsigned storage mode.

Decimal (Base 10)		Binary (Base 2)	
Smallest	Largest	Smallest	Largest
#9	#10	#11	#12

For each of the decimal numbers in the table below, provide the internal representation of each. Assume a word size of 8 bits and an unsigned storage mode.

Decimal Number	Internal Representation	Decimal Number	Internal Representation
0	#13	1	#14
125	#15	128	#16
208	#17	255	#18
256	#19	-1	#20

For each of the internal forms shown in the table below, provide the decimal (base 10) equivalent. Assume a word size of 8 bits and an unsigned storage mode.

Internal Representation	Decimal Number	Internal Representation	Decimal Number
0101 1001	#21	1010 0110	#22
1111 1111	#23	1000 0000	#24
0111 1111	#25	0000 0000	#26
1010 1010	#27	0101 0101	#28
0011 1100	#29	1100 0011	#30