

- 1 (Part of Problem 3 on page 19 of Dr. Eccles' book). Convert each of the following unsigned binary numbers to their decimal equivalent.

Unsigned Binary	Decimal
1100	
10000	

- 2 (Part of Problem 5 on page 19 of Dr. Eccles' book). Convert each of the following decimal numbers to their binary equivalent.

Decimal	Binary
57	
159	
31	

- 3 (Part of Problem 8 on page 19 of Dr. Eccles' book). Convert each of the following unsigned binary numbers to their decimal equivalent.

Unsigned Binary	Decimal
101.1101	
1001.101	

- 4 (Part of Problem 22 on page 20 of Dr. Eccles' book). Perform the following arithmetic in binary.

Operation	Result
1110+110	
1011*1011	

- 5 Convert the following 4-bit numbers to their 2's complement counterparts.

0101	
10100	
0111	

- 6 Carry out the following additions and indicate if there is overflow for unsigned or 2's complement representations.

Addend	Augment	Binary result	Decimal Notation		Overflow (Yes/No)	
			Unsigned	2's compl	Unsigned	2's compl
0101	1011					
1100	1001					
0011	0110					