Kurt Medley
MB Ch 6 p88: 2, 3, 8, 9, 10, 11, 12 ,13, 14

2. 1011 0100 1110 0000 = BFE0H

3. a) 7B
b) 78
c) A8
d) D1

8. a) B4
b) 73
c) 35
d) 1

9. a) 1110 1101; ED
b) 1101 0000; D0
c) 0010 0101; 25
d) 1101 1111; DF

10. EE -> 0111 0111 -> 2's complement -> 1000 1001 -> 137

11. low SUB = 9B; high SUB = DD

12. Letters B and C cause an overflow when SUB is LOW

13. The half adder is limited because it only adds 2 bits. The full adder can add 3 bits and be cascaded to allow for larger binary addition.

14. 2's-complement has become so widespread because it is an easy way to represent negative numbers in binary, which can then be used in computers.