**Systems and PDC: Diagnostic Assessment (binary and hexadecimal)**

**Name**

Work on your own. If you have questions, you can ask. Don’t worry if you can’t answer the questions.

1. Convert the following numbers from binary to decimal:  
 10  
 11  
 100  
 111  
 1000

2. Convert the following from decimal numbers to binary  
 3  
 7  
 8  
 10  
 15

3. Convert the following binary numbers to hexadecimal   
 0100   
 1010  
 1111

4. Convert from hexadecimal to decimal  
 0xa  
 0xf  
 0x1f

5. Assuming 4-bit 2s complement representation of the following signed integers, compute the negative of each.  
 0000  
 0001  
 0010  
 1001