Number Representation and Conversion

1.) What is 42 (decimal) in binary?

2.) What is 282 (decimal) in binary?

3.) What is 1001 1101 (binary) in decimal? (the space in the middle is just to make this easier to read; this is equivalent to 10011101)

4.) What is 1100 1000 0010 1111 0110 1001 0101 1010 in hexadecimal? (Hint: use a lookup table)