Denary to Binary Conversion

To convert decimal to binary is also very simple, you simply divide the decimal value by 2 and then write down the remainder, repeat this process until you cannot divide by 2 anymore, for example let's take the decimal value 157:

 $157 \div 2 = 78$ with a remainder of 1 $78 \div 2 = 39$ with a remainder of 0 $39 \div 2 = 19$ with a remainder of 1 $19 \div 2 = 9$ with a remainder of 1 $9 \div 2 = 4$ with a remainder of 1 $4 \div 2 = 2$ with a remainder of 0 $2 \div 2 = 1$ with a remainder of 0 $1 \div 2 = 0$ with a remainder of 1

Next write down the value of the remainders from bottom to top (in other words write down the bottom remainder first and work your way up the list) which gives:

10011101 = 157

Now convert the following denary numbers to binary:

250	
125	
64	
17	
9	
134	
88	
32	
12	
180	
3	
77	
19	
222	