Do the following exercises by hand. You may use a calculator to check your answers. Show your working. 1. Convert the following from decimal to binary

• 1 : **1**

• 42 : 42/2 = 21 rem: 0

21/2= 10 rem: 1

10/2= 5 rem: 0

5/2 = 2 rem: 1

2/2 = 1 rem: 0

½=0 rem: 1

010101reverse that **101010**

I showed my work so I’m just going to give answers from here

• 256 : **0001 0000 0000**

• 4,294,967,296 : **0001 0000 0000 0000 0000 0000 0000 0000 0000**

2. Convert the following from binary to decimal

• 10000000 : 255

• 10101010 : 252

• 11110000 : 240

• 11001100: 204