

Work the following problems in the space provided. You may use a scientific calculator to check your answers, but you must be able to work these problems by hand. When you have them all worked, Get back on Brightspace and fill in the answers on the Quiz.

1. Show how the following integers would be represented by a system that uses 8-bit unsigned integers. You must give your answers in the form **nnnn nnnn** the full 8 bits in two nibbles.

(a) 37

0010 0101

(b) 89

0101 1001

(c) 4

0000 0100

(d) 126

0111 1110

(e) 298

1 0010 1010

2. What are the hexadecimal representation of the following integers?

(a) 67

43

(b) 142

8E

(c) 1348

544

3. What are the decimal values of the following hexadecimal numbers?

(a) 0X1B

27

(b) 0XA7

167

(c) 0X8CE

2254