1. a)1:. a) BuzA₁₆ to decimal

11(16³¹) + 4(16²) + 2(16) + 10

45056 + 1024 + 32 + 10

46122

ii. 6789 into hex

16/6789 678910 = 11A8516 16/424 R5 16/26 R8 16/1 RA 0 R1

111. 0011 0101 0100 1110₂
3 5 4 E 354E₁₆

can group in groups of 4 to create easier hex conversion

iv. 64-bit bit binary number has 16 hex digits.
6414 = 16

> xy Cin + xy Cin + xy Cin + xy Cin xy Cin + xy Cin + xy Cin + xy Cin x Cin y + x Cin y + xy Cin + xy Cin x Cin (y + y) + xy Cin + xy Cin x Cin (1) + xy Cin + xy Cin x Cin + xy Cin + xy Cin

