01.1 Convert the binary number 10111010 into decimal.

[1 mark]

186

01.2 Convert the binary number 11001110 into hexadecimal. You should show your working.

[2 marks]

Answer: CE

01.3 Convert the hexadecimal number 4C into decimal. You should show your working.

[2 marks]

$$4 \times 16 = 64$$
; C = 12 so 4C = $64 + 12 = 76$

Answer: 76

01.5 State the arithmetic effect of right binary shifting a binary number by 4 and then left binary shifting the result by 2.

[1 mark]

right shift of 2 [no marks – question askes for arithmetic effect] quarter it [1] / divide by 4 [1]

02 Add together the following three binary numbers and give your answer in 8 bit binary

[2 marks]

03 Place the following quantities in order of size (1 - 4), where 1 is the smallest and 4 is the largest) [3 marks]

Quantity	Order (1 – 4)
15 bits	2
1 Byte	1
1 kiloByte	3
1,040 Bytes	4

[1 mark if one correct; 2 marks if two correct; 3 marks if all four correct]