



1.4 Binary Representation Questions

1. The two below are stored using unsigned binary. Calculate the subtraction of 01110010 from 11000011. Show your working.

$$\begin{array}{r} 11000011 \\ \underline{01110010} - \end{array}$$

[2]

2. Calculate the subtraction of the following two 8-bit binary numbers.

You must show your working.

$$\begin{array}{r} 11010011 \\ \underline{01111001} - \end{array}$$

[2]

3. Complete the following binary subtraction. Show your working.

$$\begin{array}{r} 01001001 \\ \underline{00101111} - \end{array}$$

[2]

4. Using binary subtraction, calculate your answer to the following. You must show your working.

$$\begin{array}{r} 01001100 \\ \underline{00110010} - \end{array}$$

[2]

5. Complete the following binary subtraction. Show your working.

$$\begin{array}{r} 11001010 \\ \underline{00110101} - \end{array}$$

[2]

END OF QUESTION PAPER





1.4 Binary Representation Questions

Mark scheme

Question			Answer/Indicative content	Marks
1			0212 11000011 01110010 1 Mark for answer 1 Mark for showing working using appropriate binary method.	2
			Total	2
2			1 mark per bullet up to a maximum of 2 marks, e.g: 0101 1010 Suitable working out	2
			Total	2
3			1121 022022 01001001- <u>00101111</u> <u>00011010</u> 1 mark for correct answer 1 mark for valid method	2
			Total	2
4			00011010 1 mark for correct answer 1 mark for valid method	2
			Total	2
5			10110101 1 mark for correct answer 1 mark for valid method	2
			Total	2

