

1.4 Binary Addition Questions

1. Calculate the binary addition of these two 8-bit (unsigned) binary numbers.

Show your working.

00110110 10011001 +

[2]

2. Calculate the addition of these two 8-bit (unsigned) binary numbers.

Show your working.

11011011 10011011 +

[2]

3. Calculate the addition of the following two 8-bit binary numbers.

You must show your working.

10101010 00111100 +

4. Complete the following binary addition. Show your working.

01001001 <u>11011101</u> +

[2]

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

11101110 <u>10101010 +</u>

[2]





1.4 Binary Addition Questions

Mark scheme

Question		Answer/Indicative content	Marks	Guidance
1		 1 mark per bullet to max 2: 1100 1111 Correct working out/ 2 carries shown 	2	
		Total	2	
2		 1 mark per bullet up to a maximum of 2 marks, e.g: (1) 01110110 suitable working out with 4 carries 	2	
		Total	2	
3		 1 mark per bullet up to a maximum of 2 marks, e.g: 1110 0110 Suitable working out with 3 carries 	2	
		Total	2	
4		 1 mark per bullet up to a maximum of 2 marks, e.g: (1)0010 0110 Suitable working out with 4 carries 	2	
		Total	2	
5		 1 mark per bullet up to a maximum of 2 marks, e.g: (1)1001 1000 Suitable working out with 5 carries 		

