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"3-a-day" A-Level Exam Practice Unit 1 (017)

Question 1	
000011	00 is shifted two places to the left.
(i) Sh	ow the result.
	[1]
Question 2	
(ii)	Identify what arithmetic operation this shift is equivalent to.
	[1]
Question3	
Co	nvert the denary number -8 to:
(i)	An 8-bit sign and magnitude binary number.
	[1]
(ii)	An 8-bit two's complement binary number.
	[1]

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Answer 1		
i	00110000	A01.2
		1
Answer 2		
ii	Multiplying by 4	AO2. 1
		1
Answer 3		
i	10001000	AO1. 1 1
ï	11111000	A01. 1
		1