Unit 2.6 Data Representation Lesson 1 -**Numbers**

Total points 16/17

Email address * william.dargan@adamsgs.uk	
✓ What numeric base does Binary operate on? (1-4)	1/1
12	✓
416	
Feedback Well done Binary means base 2	

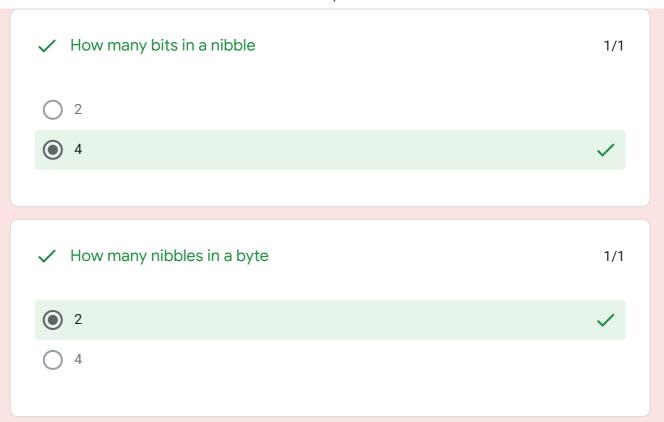
✓	How many bits are there in a byte?	1/1
	2	
0	4	
0	6	
	8	/
	eedback Vell done there are 8 bits in a byte	
✓	What is the maximum number of bits needed to represent 15 in denary?	1/1
	2	
	6	
0	8	

✓ What is the F	lexadecimal representation of 17?	1/1
O A1		
O 1A		
11		✓
O 23		
✓ What is the 8	bit binary representation of 17?	1/1
1010 0001		
0011 010		
0001 0001		✓
0010 0011		
✓ What is the F	Hexadecimal representation of 32?	1/1
2 0		✓
02		
O A2		
O 2A		

~	What is the binary representation of 32?	1/1
•	00100000	✓
0	0000010	
0	10100010	
0	00101010	
/	What is the Hexadecimal representation of this 8 bit number? 0100 1111	1/1
0	3B	
•	4F	✓
0	45	
0	31	
~	What is the Denary representation of this 8 bit number? 0100 1111	1/1
0	59	
	79	✓
0	69	
0	49	

✓ V	What is the Hexadecimal representation of this 8 bit number? 1101 0101	1/1
	D7	
()	D5	✓
	E5	
	E1	
✓ V	What is the Denary representation of this 8 bit number? 1101 0101	1/1
0	199	
	206	
0 2	228	
• 2	213	✓
✓ ⊦	How Bytes are there in a Terabyte?	1/1
0	1000 Kilobytes	
0	1000 Megabytes	
	1000 Gigabytes	✓

✓ Why do we use the binary number system in Computing?	1/1
Because a CPU has two transistors	
To represent the two different states of transistors	✓
To allow the CPU to be in one of two states	
X What is the hex number 6B in binary?	0/1
0110 1011	
O 1010 1110	
0111 0111	×
0110 1110	
Correct answer	
© 0110 1011	
✓ What is the hex number 6B in Denary?	1/1
O 71	
107	~
O 93	
O 102	



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