Unit 2.6 Data Representation Lesson 1 - Numbers

Total points 16/17

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✓ What numeric base does Binary operate on? (1-4) 1/1

- ○ 1
- ◉ 2 ✓
- ○ 4
- ○ 16

Feedback

Well done Binary means base 2

✓ How many bits are there in a byte? 1/1

- ○ 2
- ○ 4
- ○ 6
- ◉ 8 ✓

Feedback

Well done there are 8 bits in a byte

✓ What is the maximum number of bits needed to represent 15 in denary? 1/1

- ○ 2
- ◉ 4 ✓
- ○ 6
- ○ 8

Feedback

15 in Binary is 1111

✓ What is the Hexadecimal representation of 17? 1/1

- A1
- 1A
- 11 ✓
- 23

✓ What is the 8 bit binary representation of 17? 1/1

- 1010 0001
- 0011 010
- 0001 0001 ✓
- 0010 0011

✓ What is the Hexadecimal representation of 32? 1/1

- 20 ✓
- 02
- A2
- 2A

✓ What is the binary representation of 32? 1/1

- (●) 00100000 ✓
- ( ) 00000010
- ( ) 10100010
- ( ) 00101010

✓ What is the Hexadecimal representation of this 8 bit number? 0100 1111 1/1

- ( ) 3B
- (●) 4F ✓
- ( ) 45
- ( ) 31

✓ What is the Denary representation of this 8 bit number? 0100 1111 1/1

- ( ) 59
- (●) 79 ✓
- ( ) 69
- ( ) 49

✓ What is the Hexadecimal representation of this 8 bit number? 1101 0101 1/1

- ○ D7
- ◉ D5 ✓
- ○ E5
- ○ E1

✓ What is the Denary representation of this 8 bit number? 1101 0101 1/1

- ○ 199
- ○ 206
- ○ 228
- ◉ 213 ✓

✓ How Bytes are there in a Terabyte? 1/1

- ○ 1000 Kilobytes
- ○ 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

✗ What is the hex number 6B in binary? 0/1

- ○ 0110 1011
- ○ 1010 1110
- ◉ 0111 0111 ✗
- ○ 0110 1110

Correct answer

- ◉ 0110 1011

✓ What is the hex number 6B in Denary? 1/1

- ○ 71
- ◉ 107 ✓
- ○ 93
- ○ 102

✓ How many bits in a nibble 1/1

- ○ 2
- ◉ 4 ✓

✓ How many nibbles in a byte 1/1

- ◉ 2 ✓
- ○ 4