David Gbogi

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Period 7

Mr. Costanzo

Section 1.1 Questions

True/ False

1. Names, addresses, and dollar amounts are all examples of data. | T
2. The decimal number system is also called the base 2 number system. | F
3. Each digit of a binary number represents a power of 10. | F
4. Letters and symbols are represented in the computer by numbers. | T
5. the basic ASCII code uses 8 bits. | F

Short Answer

1. Define Data | Data is a computer representation of something that exists in the real world.
2. How many bits are in a byte? | 8
3. What is the language called that is “understood” by the microprocessor? | machine language
4. How many combinations of bits are possible with three bits? | 8
5. How many combinations of bits are possible with five bits? | 32

Problem 1.2.1

Binary Decimal

0000 0

0001 1

0111 7

1000 8

1110 14

1111 15

Problem 1.2.2

Decimal Binary

0 0000

1 0001

2 0010

3 0011

4 0100

5 0101

6 0110

7 0111

8 1000

9 1001

10 1010

Problem 1.2.3

1, 2, 4 ,8, 16, 32, 64, 128, 256, 512, 1024, 2048 4096.

Problem 1.2.4

St. Joe’s [Total: 717]

S= 101 0011 [Amount: 83]

t = 111 0100 [Amount: 116]

. = 010 1110 [Amount: 46]  
J = 100 1010 [Amount: 74]

o = 110 1111 [Amount: 111]

e = 110 0101 [Amount: 101]

‘ = 110 0000 [Amount: 96]

s = 111 0011 [Amount: 115]