HW

M1WS2

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Numbering System Conversions

Show Work! Point deduction taken if work not shown

1. Convert 147_{10} to binary

10010011_2

128 - 64 - 32 - ~~16~~ - 8 - 4 - 2 - 1

128 + 16 + 2 + 1 = 147

1 0 0 1 0 0 1 1

2. Convert 63_{10} to binary

111111_2

32 - 16 - 8 - 4 - 2 - 1

32 + 16 + 8 + 4 + 2 + 1 = 63

3. Convert 97_{10} to hexadecimal

61_{16}

97/16 = 6 R1

4. Convert 95_{10} to hexadecimal

$5F_{16}$

95/16 = 5 R15

$5F_{16}$

5. Convert $3D_{16}$ to binary

00111101_2

3 = 0011

D/13 = 1101

6. Convert 235_{10} to hexadecimal. Then convert hexadecimal value to binary

235/16 = 14 R11

EB_{16}

EB_{16}

E/14 = 1110

B/11 = 1011

11101011_2