```
1) 211=01.11010011
   43 = 00101011
   Convert to 2's 00101011
Comp. 11010100
    1101 0011 11010101
    +1101 0101 There is overflow
2) 1111 1100 0000 1011 0000 1010 0000 0000
   0000 0011 1111 0100 1111 0110 0000 0000
    2'3: 66385 408
    Unsigned: 1422 858 1889
 3) 0x 39 78 0000 =
   0011 1001 0111 1000 0000 0000 0000 0000
   Exponent = 0111 0010 = 114 - 12>-114 = 13
Man tissn = 111 1000 0000 0000 0000 = . 9375
   +-1° · (1+m) (2-13) = :000236511
```

4) 659 8735 , 51325 = 110001001011000000110100000110100000011 Bias = 127 + 22 = 149 = 100 10101 0 10010101 100100101100000100111111 = 10x4AC9609F) 5) -27396.578125 110101100000100 . 100 101 1.1010110000010010010101814 Bins = 1023 + 14 = 1037 = 0x 400 0100 0000 1101 1 100 0000 1101 10111 0000010010010100000 000000000000000000 0x (00 A(12500000000

6) -1947.5 1947.5= 11110011011.11 5=1 0.011110011011 11 ·164 3+64 = 100 0011 1100 0011 0111 1001 1011 1100 0000 0000 = [0x (379 B (00]

7) -1,5125 E-1 = .15625 = .101 E-2 16 10 1111 1111 1111 1111 1111 = [0x 8000 0005] 0000 0000 0000 0000 Heulett Range min = -1 = 2 = > = 100 | 1111 | 1111 | 1111 | 1111 | 2 | 107 TEEE lange min: -1. 111 /111 /111 /111 /111 /111 .212> Max: 1. 111 /111 /111 /111 /111 /111 /2/2> Heulett Accuracy: 1.0.2-151 IEEE Accuracy: 1.0.2-16

8)	in provement Clark Time Xes 1830 ps NO 1330 ps
82)	Pren - LETNEW - ETOLD = 1 Cond. 1 CPTo. ETOLD Prold VETHING ETON Tonew. CPINEW. CTrev 1330 ps = .8589
8.3)	1000 + 2.30 + 3.10 +100 +200 +2000 +500 = 3890
	3390+600= 4490
	with 4490 = 2.75
	without 3890 2.92
	the improvement works