	Derek Trinh
0	
1,	5.75
	1. Convert whole number
	5 1 101
	2 0
	11
	0
	2. Convert decinal
	.75 ×2 1.5 1 11
	.5 1.0 1
	0
	3. Combine
	[101,11]
	17/14
	63/64
	1. 1/64 15 2-6
	2-6 as 6 mary is 0,000001
	2, 1 - 0,000001 = [0,1111]
	2, 1 - 1,000001 - [0,1111]

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	Page 2
6	rage 2
	9.8125
	1. Convert whole number
	9 1 1001
	40
	2 0
	2. Convert decinal
	,8125 ×2 1.625 1 1101
-	.625 1.25 1
_	, 25 0.5 0
-	.5 1.0 1
	0
	3. Contine
	1001,1101
6	

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	roge s
2,	34.890625
	1. Convert whole part 2 Convert decimal
	34 0 100010 . 890625 1.78125 1 111001
	17 1 .78125 1.5625 1
	8 0 .5625 1.125 1
	.125 0.25 0
	2 0 , 25 0.5 6
	.5 1.0 1
	0
	2 100010 11001
	3. 100010,111001 132 0
	mantissa = 100010111001 66 0
	exponent = 5 331
	6105 exp = 5+127 = 132 16 0
	4 0
	20
	Q
	4. Sign is positive
	0 10000100 0001011100100000000000000000

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0	Page 4
3.	0 01111011 000000
	1. Sign is positive 01111011
	2. Brased exp = 123 0137 3061123
	exp = 123 -127 = -4
	3. Mantesa = 1.000000
	4. After exp
	$0.0001 = 2^{-4} = [0.0625]$
4.	A normalized floating point has an implied 'I' bit at the beginning of the mantissa. A denormalized floating point does not have an implied 'I'. It is recognized by all 'D' exponent
	A denormalized floating point does not have an
	implied '1'. It is recognized by all 'D' exponent
	Snallest normalized = 0 11110 000000000
	Greatest denormalized = 0 00000 000000000