Floating Point Arithmetic

Due May 7 at 11:59pm	Points 113	Questions 3	Available until May 10 at 11:59pm	Time Limit None
Dao may / at 11.00pm	i omio	Quootiono o	Available and may re at 11.00pm	Timo Emilit Hono

Instructions

For each exercise you will be given two numbers in floating point format.

You will then add the floating point quantities and next multiply them together.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	1,173 minutes	60 out of 113

▲ Correct answers will be available on May 11 at 12am.

Score for this quiz: **60** out of 113 Submitted May 2 at 9:51am This attempt took 1 173 minutes

Partial	Question 1	32 / 56 pts
	num1: 0x425A0000; num2: 0x41998000	
	Decimal->num1(E): 132	
	Decimal->num1(P): 5	
	binary without trailing zeros->num1(F bin):	
	Decimal->num2(E):	
	Decimal->num2(P): 4	
	binary without trailing zeros->num2(F bin):	
	Calculate num1 + num2	
	Decimal->Normalized Sum(E): 73.6875	

binary without trailing zeros->Sum(Fbin): 0010011011
HEX without radix specifier->Sum(FP32): 93600000
Calculate num1*num2 in decimal->Initial calculation for Product(E): num1(E)+num2(E)-127=
binary without trailing zeros->Initial Product calculation: 1.000001010110111
decimal->Normalized Product(E): 1045.71875
binary without trailing zeros->Normalized Product(F bin):
hex without radix specifier->Product(FP32): 82B70000
Answer 1:
132
Answer 2:
5
Answer 3:
101101
Answer 4:
131
Answer 5:
4
Answer 6:
00110011
Answer 7:
73.6875
Answer 8:
0010011011
Answer 9:
93600000
Answer 10:

136			
Answer 11:			
1.0000	01010110111		
Answer 12:			
1045.7	875		
Answer 13:			
000001	010111011010111		
Answer 14:			
82B700	00		

Partial	Question 2	28 / 56 pts
	num1: 0x42690000; num2: 0x41E30000 Decimal->num1(E): 10000100	
	Decimal->num1(P): 5	
	binary without trailing zeros->num1(F bin):	
	Decimal->num2(E): 10000011	
	Decimal->num2(P): 4	
	binary without trailing zeros->num2(F bin): 1100011	
	Calculate num1 + num2	
	Decimal->Normalized Sum(E): 86.625	
	binary without trailing zeros->Sum(Fbin): 010110101	
	HEX without radix specifier->Sum(FP32): AD400000	
	Calculate num1*num2	
	in decimal->Initial calculation for Product(E): num1(E)+num2(E)-127=	

binary without trailing zeros->Initial Product calculation: 1.100111010011011
decimal->Normalized Product(E): 1652.84375
100111010011011
binary without trailing zeros->Normalized Product(F bin): 100111010011011
hex without radix specifier->Product(FP32):
Answer 1:
10000100
Answer 2:
5
Answer 3:
1101001
Answer 4:
10000011
Answer 5:
4
Answer 6:
1100011
Answer 7:
86.625
Answer 8:
010110101
Answer 9:
AD400000
Answer 10:
136
Answer 11:
1.100111010011011
Answer 12:
1652.84375

Answer 13:			
100111010011011			
Answer 14:			
CE9B0000			

Incorrect	Question 3	0 / 1 pts
	num1: 0x3F160000; num2: 0x3F1E0000	
	Decimal->num1(E): 11111100	
	Decimal->num1(P):	
	binary without trailing zeros->num1(F bin):	
	Decimal->num2(E):	
	Decimal->num2(P):	
	binary without trailing zeros->num2(F bin):	
	Calculate num1 + num2	
	Decimal->Normalized Sum(E):	
	binary without trailing zeros->Sum(Fbin):	
	HEX without radix specifier->Sum(FP32):	
	Calculate num1*num2	
	in decimal->Initial calculation for Product(E): num1(E)+num2(E)-127=	
	binary without trailing zeros->Initial Product calculation:	
	decimal->Normalized Product(E):	
	binary without trailing zeros->Normalized Product(F bin):	
	hex without radix specifier->Product(FP32):	

Answer 1:	
11111100	
Answer 2:	
(You left this blank	:)
Answer 3:	
(You left this blank	:)
Answer 4:	
(You left this blank	:)
Answer 5:	
(You left this blank	:)
Answer 6:	
(You left this blank	:)
Answer 7:	
(You left this blank	
Answer 8:	
(You left this blank	:)
Answer 9:	
(You left this blank	
Answer 10:	
(You left this blank	()
Answer 11:	
(You left this blank	()
Answer 12:	
(You left this blank	:)
Answer 13:	
(You left this blank	
Answer 14:	
(You left this blank	:)

Quiz Score: 60 out of 113