## Floating Point to Decimal Official

<b>Due</b> Apr 28 at 11:59pm	Points 60	Questions 3	Available Apr 24 at 6pm - May 3 at 11:59pm 9 days
Time Limit None			

## Instructions

Do the online quiz named Floating Point to Decimal Practice first so you can see how each answer is formatted and be sure to follow the format on the Decimal To Floating Point Official online quiz.

Some formatting details:

- · certain answers are in binary, others in decimal, and the final answer in hex
- · put hex letters in lowercase
- no radix specifiers for any answers
- · negative sign for only for negative unbiased exponent or negative regular decimal quantity
- · trailing zeros are never shown

A IEEE754 converter can be used to check your answers:

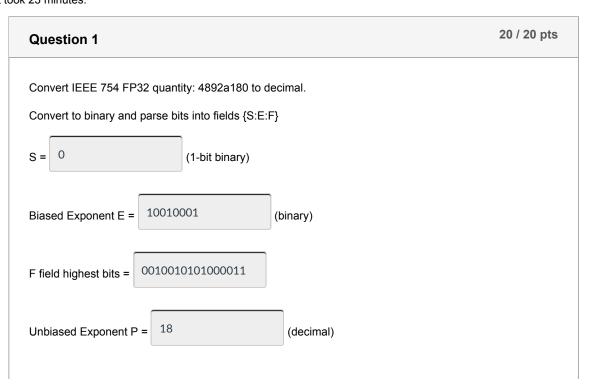
https://www.h-schmidt.net/FloatConverter/IEEE754.html

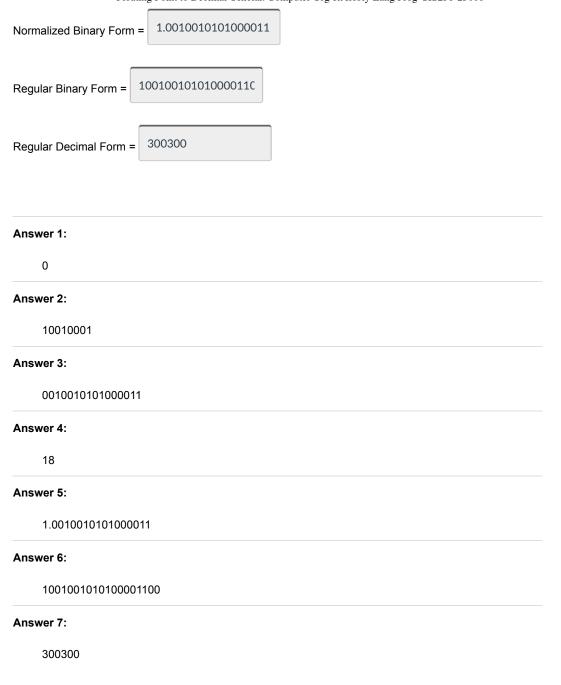
## **Attempt History**

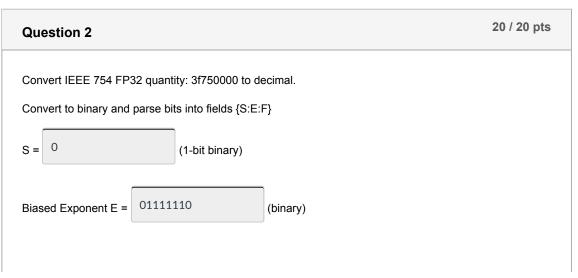
LATEST Attempt 1 23 minutes 60 out of 60		Attempt	Time	Score
	LATEST	Attempt 1	23 minutes	60 out of 60

▲ Correct answers will be available on May 4 at 12am.

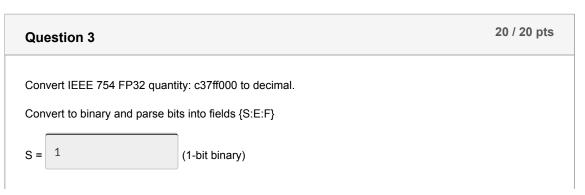
Score for this quiz: **60** out of 60 Submitted Apr 24 at 11:26pm This attempt took 23 minutes.







1110101 F field highest bits = Unbiased Exponent P = (decimal) 1.1110101 Normalized Binary Form = 0.11110101 Regular Binary Form = 0.95703125 Regular Decimal Form = Answer 1: 0 Answer 2: 01111110 Answer 3: 1110101 Answer 4: -1 Answer 5: 1.1110101 Answer 6: 0.11110101 Answer 7: 0.95703125



Biased Exponent E = 10000110 (binary)
F field highest bits = 11111111111
Unbiased Exponent P = 7 (decimal)
Normalized Binary Form = 1.11111111111
Regular Binary Form = 1111111111111
Regular Decimal Form = -255.9375
Answer 1:
1
Answer 2:
10000110
Answer 3:
1111111111
Answer 4:
7
Answer 5:
1.1111111111
Answer 6:
11111111.1111
Answer 7:
-255.9375

Quiz Score: 60 out of 60