### **Summary Exercise - Week 4**

**Due** Oct 27 at 11:59pm

Points 26

**Questions** 26

Available after Oct 20 at 12am

Time Limit 360 Minutes

**Allowed Attempts** 2

### Take the Quiz Again

### **Attempt History**

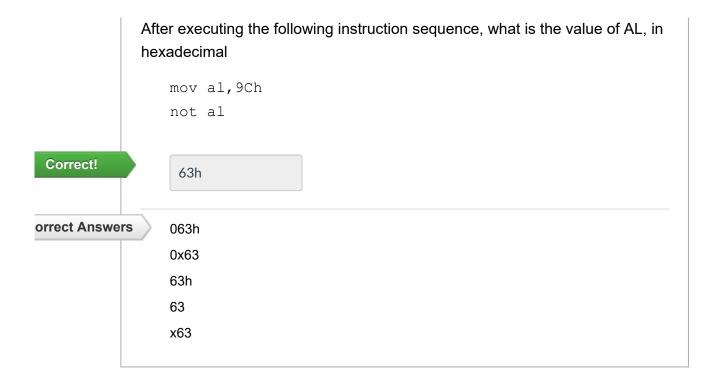
	Attempt	Time	Score
LATEST	Attempt 1	73 minutes	26 out of 26

Score for this attempt: 26 out of 26

Submitted Oct 25 at 6:21pm
This attempt took 73 minutes.

# After executing the following instruction sequence, what is the value of AL, in hexadecimal mov al, 86h or al, 42h Correct! C6h C6c C6h C6 OxC6

## Question 2 1 / 1 pts



	Question 3	1 / 1 pts
	After the following instruction sequence, show the values of the C	arry
	0 , Zero 0 , and Sign 0	
	flags	
	mov al,00110011b test al,2	
	Answer 1:	
Correct!	0	
	Answer 2:	
Correct!	0	
	Answer 3:	
Correct!	0	
	O Answer 3:	

Question 4 1 / 1 pts

	What is a single instruction that clears bits 0, 3, and 4 in the AL register?				
	and al,11001110b				
	and al,11100101b				
	or al,00011001b				
	or al,11100110b				
Correct!	<ul><li>and al,11100110b</li></ul>				
	or al,11110010b				

	Question 5	/ 1 pts
	What is a single instruction that complements all bits in AL, without us XOR instruction?	ing the
	and al, al	
Correct!	not al	
	or al,al	
	o not ah	

## Question 6 1 / 1 pts

Suppose EAX, EBX, and ECX contained three unsigned integers. Which of the following code excerpts would display the largest of the three integers?

```
Correct!
```

```
cmp eax, ebx
      jae L1
      mov eax, ebx
  L1: cmp eax, ecx
      jae L2
      mov eax, ecx
L2: call WriteInt
      cmp eax, ecx
      jae L1
      mov eax, ebx
  L1: cmp eax, ebx
      jae L2
      mov eax, ecx
L2: call WriteInt
      cmp eax, ebx
      jnae L1
      mov eax, ebx
  L1: cmp ecx, eax
      jnae L2
      mov eax, ecx
L2: call WriteInt
      cmp eax, ebx
      jb L1
      mov eax, ebx
  L1: cmp eax, ecx
      jb L2
      mov eax, ecx
L2: call WriteInt
```

### Question 7 1 / 1 pts

After executing the following instruction sequence, what is the value of AL, in hexadecimal

mov al,72h
xor al,0A5h

Correct!

0D7h

 orrect Answers
 xD7

 0D7h
 0xD7

 D7h
 D7h

 D7
 D7h

1 / 1 pts **Question 8** After the following instruction sequence, show the values of the Carry , Zero 0 0 , and Sign <sup>0</sup> flags mov al,6 cmp al,5 Answer 1: Correct! 0 Answer 2: Correct! 0 Answer 3: Correct! 0

What is a single instruction that inverts bits 5 and 6 in BL without changing any other bits?

or bl,0011111b

or bl,1100000b

C	or	re	ct	

- xor bl,1100000b
- and bl,1100000b

### **Question 10**

1 / 1 pts

What will be the hexadecimal value of AL after these instructions execute?

mov al,94h xor al,37h

- not listed
- B7h

Correct!

- A3h
- 3Fh

### **Question 11**

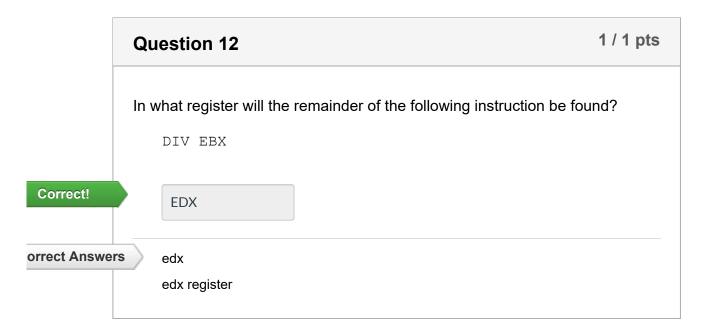
1 / 1 pts

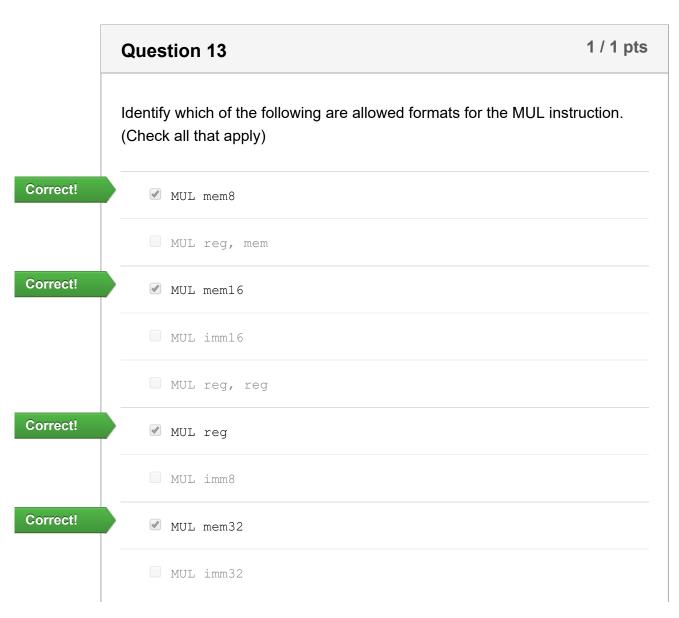
### The Irvine32 library call GetMseconds returns

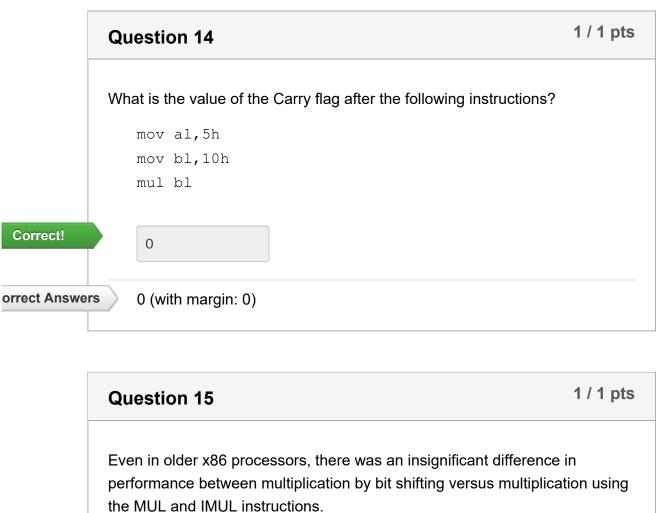
- number of system midnight seconds that have elapsed since the epoch
- number of system microseconds that have elapsed since the epoch
- number of system microseconds that have elapsed since midnight
- number of system microsoftseconds that have elapsed since midnight
- number of system milliseconds that have elapsed since the epoch

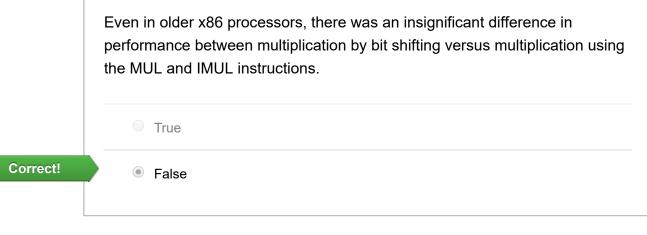
### Correct!

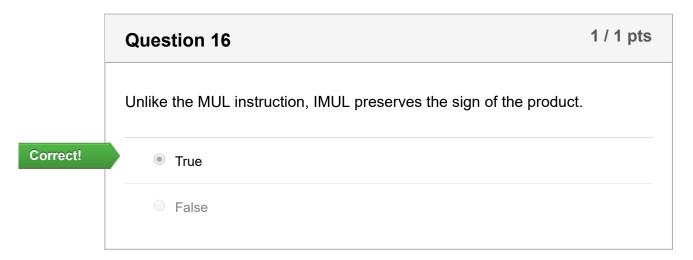
number of system milliseconds that have elapsed since midnight







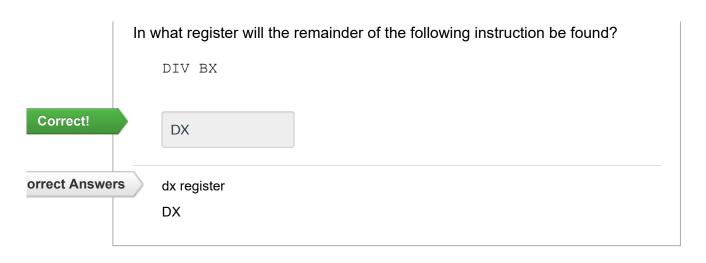


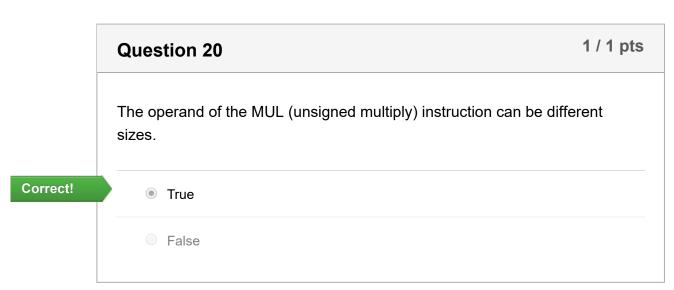


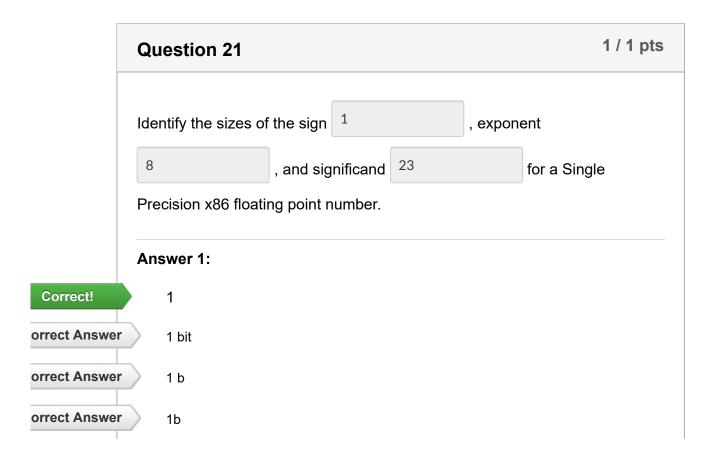
	Question 17	/ 1 pts
	Identify which of the following are correct formats for the DIV instructio (Check all that apply)	n.
Correct!	☑ DIV reg	
Correct!	☑ DIV mem32	
Correct!	☑ DIV mem8	
	DIV imm8	
Correct!	☑ DIV mem16	
	☐ DIV reg, reg	
	DIV reg, mem	
	DIV imm16	
	DIV imm32	

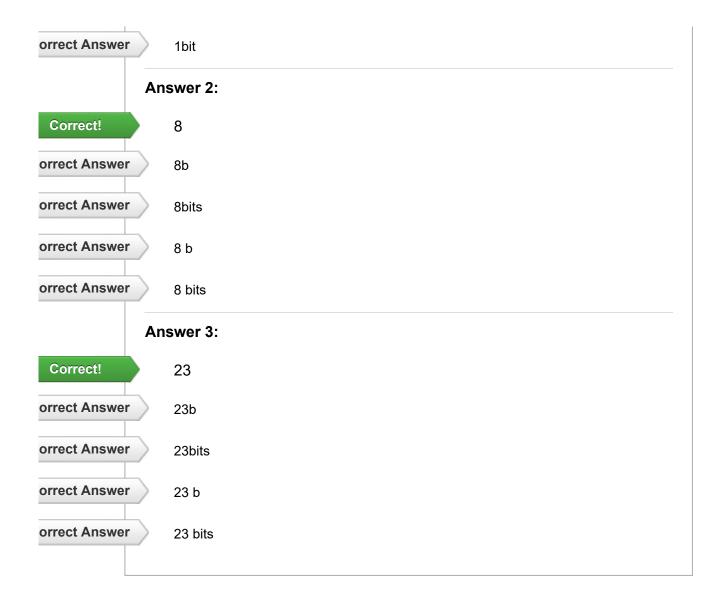
Question 18	1 / 1 pts
The MUL (unsigned multiply) instruction comes in three versions.	
True	
<ul><li>False</li></ul>	
	The MUL (unsigned multiply) instruction comes in three versions.   True

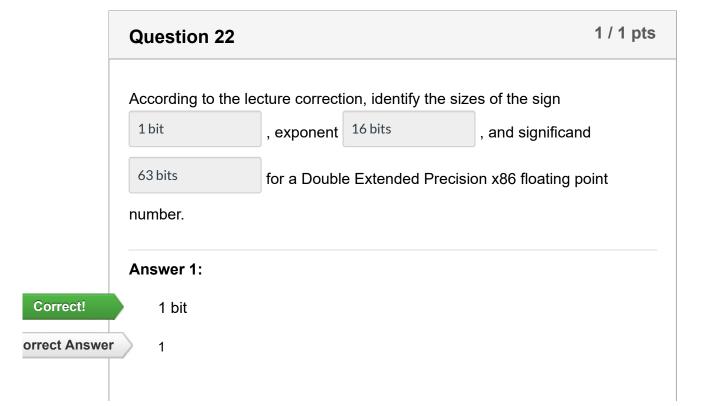
Question 19 1 / 1 pts

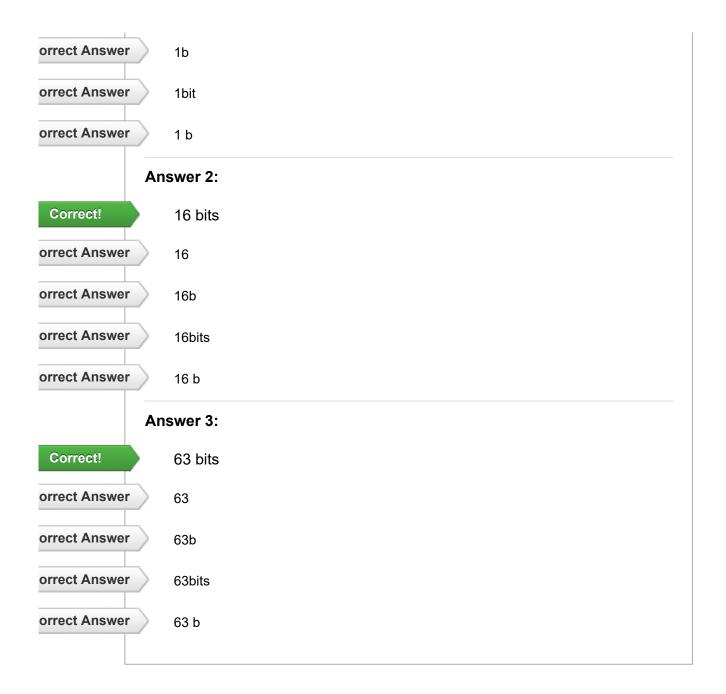




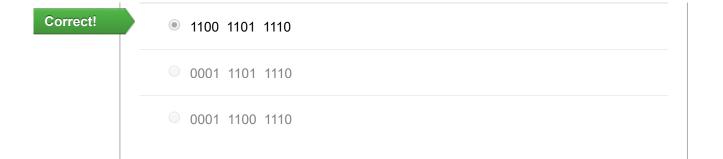








# Select the correct EVEN parity 12 bit Hamming code value for the unsigned integer value 110 1001 1100 1110 1000 1101 1110



Question 24	1 / 1 pts
Select the correct <b>EVEN</b> parity 12 bit Hamming code integer value 191	value for the unsigned
<ul><li>0111 0110 1111</li></ul>	
0011 0110 1111	
0 1010 0110 1111	
0 1000 0111 1111	
0 1010 0111 1111	
0111 0110 1110	

Correct!

## Question 25 1/1 pts 1101 0000 1100 is an ODD parity 12 bit Hamming code that contains a single-bit error. What is the corresponding uncorrupted Hamming code? 1001 0000 1110 Correct! 1/1 pts 1/1 pts

0 1101 00	10 1110	
0 1101 10	00 1110	

	Question 26	1 / 1 pts
	0011 1000 1011 is an <b>EVEN</b> parity 12 bit Hamming code that conta single-bit error. What is the corresponding <b>uncorrupted</b> Hamming code?	ains a
	O111 1000 1011	
	0011 1001 1011	
Correct!	<ul><li>0011 1000 1010</li></ul>	
	O011 0000 1011	

Quiz Score: 26 out of 26