# Thursday, April 25, 2019

### <u>Agenda</u>

- Journal Intro
- Hexadecimal Numbering System
  - what?
  - why?
  - how?
- MC Questions from Mock Exam
- Journal Conclusion
- Work on Tasks

Journal **Complete the** following in your journal:  $16^0 =$  $16^1 = 10^{10}$  $16^2 = 256$ 256 = ?<sup>?</sup>

### **Objectives**

**Content**: I will <u>convert</u> between **hexadecimal**, **binary** and **decimal** representations of numbers. **Social**: I will <u>participate</u> in class activities.



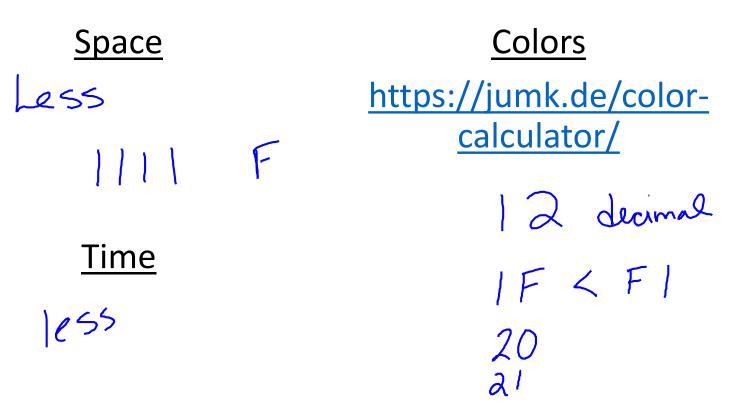
• How does it work?

Binary	Decimal	Hexadecimal	
0000	0	0	
0001	1	1	
0010	2	2	
0011	3	3	
0100	4	4	
0101	5	5	
0110	6	6	
0111	7	7	
1000	8	8	
1001	9	9	
1010	10	А	
1011	11	В	
1100	12	С	
1101	13	D	
1110	14	E	
1111	15	F	

#### **Objectives**

**Content**: I will <u>think</u> between **hexadecimal**, **binary** and **decimal** representations of numbers. **Social**: I will participate in class activities.

### Why Hexadecimal?



**Objectives** 

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	D.	<b>D</b> · 1	
2SI	Binary	Decimal	Hexadecimal
Dinory to Hoyadaaimal	0000	0	0
Binary to Hexadecimal	0001	1	1
1256432168 21	0010	2	2
• How does it work? $(1) (1) (0) (1)$	0011	3	3
	0100	4	4
translation FB	0101	5	5
fallstopach FD	0110	6	6
1 bits	0111	7	7
	1000	8	8
	1001	9	9
<b>Hexadecimal to Binary</b>	1010	10	А
	1011	11	В
A	1100	12	С
	1101	13	D
	1110	14	E
[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[	1111	15	F
•			

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	Q P	Binary	Decimal	Hexadecimal
Decimal to Hay	ΠD	0000	0	0
<b>Decimal to Hex</b>	$\gamma$	0001	1	1
$\bigcirc$	Rq'	0010	2	2
		0011	3	3
169	PII/	0100	4	4
	rx II	0101	5	5
16155.	4 Decimal	0110	6	6
		0111	7	7
Hex to Decimal		1000	8	8
		1001	9	9
		1010	10	А
		1011	11	В
		1100	12	С
		1101	13	D
10×16 + × 16		1110	14	E
10×16' + ×16 160 + 7 = 167		1111	15	F
160 ' 1 - 10'				

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## **Closing Journal Entry**

Explain at least 3 applications of the hexadecimal numbering system.

A First final + to Submit to College Board A (Doogle Clapproom assignment Gulomit

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### **Submit Tasks**

#### **Objectives**

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