

Instructions: For each question, choose the single best answer. Make your choice by clicking on its button. You can change your answers at any time. When the quiz is graded, the correct answers will appear in the box after each question.

- 1. Change the representation of 10102 from base two to base ten.
 - **A.** 8₁₀
 - **B**. 9₁₀
 - **c**. 10₁₀
 - O D. 11₁₀
 - O E. 12₁₀
 - **F.** 14₁₀

С

2. What number goes in the empty cell of the table:

Power of 2	6	5	4	3	2	1	0
Decimal	????	32	16	8	4	2	1

- **A.** 34
- **B**. 48
- **C.** 60
- **D**. 64
- **E.** 68
- **F.** 72

D

3. Chang	e the representation of 100010 ₂ from base two to base ten.
D.E.	14 28 32 34 46 52
4. Chang get this in	e the representation of 0000 1111_2 from base two to base ten. (Hint: you should nstantly.)
○ A.	6
○ B.	7
○ C.	12
O D.	15
○ E.	16
○ F.	31
D	
5. Chang previous	e the representation of 0011 1100_2 from base two to base ten. (Hint: use your answer.)
○ A.	14
○ B.	28
○ C.	32
D.	60
○ E.	64
○ F.	72
D	
	at you are using unsigned binary to represent integers with 6 bits. What range of can be represented?
○ A.	0 to 64
○ B.	1 to 64
○ C.	0 to 63
○ D.	1 to 128

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○ E.	0 to 255
○ F.	1 to 247
С	
7. Chang	ge the representation of A5 ₁₆ from base sixteen to base ten.
○ A .	46
B.	165
○ C.	232
○ D.	245
○ E.	305
○ F.	1025
В	
8. Here is binary no	s a number represented in base 16 notation: 5A3F. Write the number in unsigned tation.
A.	0101 1010 0011 1111
○ B.	1111 0011 1010 1001
○ C.	1100 1000 0111 1111
O D.	1010 1001 0011 1000
○ E.	1011 0001 0000 1110
○ F.	1110 1011 1011 1001
Α	
9. Conve	ert the representation of the following from base 16 to base 8: 0x37A.
○ A.	011 111 1010
○ B.	0772
○ C .	001 101 111 010
D.	1572
○ E.	8214
○ F.	7426
D	
10 Poor	esent 27 ₁₀ in base 2.
10.1700	COUNTER IN III DAOCE.

- 101101
- 10110 ○ B.

Algorithm: Convert a number from base 10 to base B repⁿ

number

place

= 0;

while (number > 0)

number = number to be converted

digit[place] = number mod B ;

= number div B ;

= place + 1;

place

- **C.** 1011
- **D.** 11011
- **E.** 101101
- **F.** 100110

D	
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11. Convert 304₅ from base 5 to base 10.

- **A.** 15
- **B.** 23
- **C.** 27
- O **D**. 32
- **E**. 79
- **F.** 83



12. Convert 304_5 from base 5 to base 2 (use your previous answer).

- **A.** 1100 1001
- **B.** 0110 0100
- **C.** 0010 1000
- **D.** 1000 1100
- **E.** 1010 1011
- o F. 0100 1111



13. Write the unsigned binary number 0010 1110 in hexadecimal representation

- **A.** 0232
- OB. 2F
- **C.** 3E
- **D.** 07
- O E. 2E
- F. FF

E

14. Write	the unsigned binary number 000 1	L01	110 in octal representation.		
○ A.	022				
○ B.	023				
○ C.	013				
○ D .	122				
⊙ E.	056				
○ F.	023				
Е					
15. Write	the unsigned binary number 000 1	L01	110 in decimal representation.		
○ A.	26				
B.	46				
○ C.	52				
○ D .	64				
○ E.	122				
○ F.	131				
В					
,	grac	de quiz			
The numl	ber you got right: 15 Percent	Corre	ect: 100 Letter Grade: A		
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