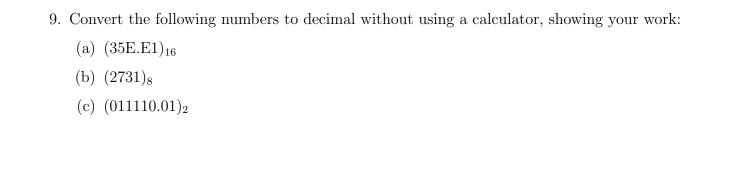
ICS Assignment 1

		Name: ID:										
1.	(In a computer, the subsystem serves as a manager of the other subsystems										
	(A)	ALU (B) control unit (C) input/output (D) memory										
2.	(A step-by-step solution to a problem is called										
	(A) (D)	a computer language (B) hardware (C) an operating system on algorithm										
3.	(When converting a decimal integer to base b, we repeatedly b.										
	(A)	livide by (B) multiply by (C) add to (D) subtract from										
4.	(When converting a decimal fraction to base b, we repeatedly b.										
	(A)	livide by (B) multiply by (C) add to (D) subtract from										
5.	(Which of the following represents the largest number?										
	(A)	$(C) (342)_8 $ (D) $(46)_{16} $ (E) $(442)_8 $										
6.	Expl	Explain the octal system. Why is it called octal? What is the base in this system?										
7.	Wha	is the function of the ALU subsystem in a computer?										
8.		ositional number system with base b , the largest integer number that can be respected K digits is $b^K - 1$. Find the largest number in each of the following systems with si										
	(a)	Binary										
	(b)	Decimal										
	(c)	Hexadecimal										
	(d)	Octal										



- 10. A number less than b^K can be represented using K digits in base b. Show the number of digits needed in each of the following cases.
 - (a) Integers less than 2^{14} in binary
 - (b) Integers less than 10^8 in decimal
 - (c) Integers less than 8^{13} in hexadecimal
 - (d) Integers less than 16⁴ in octal