1	How many nanometers make up one meter?	
1.	A. 10^3	
	B. 10^6	
	C. 10^9	
	D. 10^{12}	
	D. 10	
		1
2.	How many significant figures are in the number 0.010010?	
	A. 2	
	В. 3	
	C. 4	
	D. 5	
		2
		2
3.	Which of the following are chemical (as opposed to physical) properties?	
	I The boiling point of ethyl alcohol is 78°C.	
	II Oxygen combusts when heated.	
	III Diamond is very hard.	
	IV Sugar ferments to form ethyl alcohol.	
	A. I only.	
	B. I and III only.	
	C. II and IV only.	
	D. I, II, and IV only.	
	E. I, II, III, and IV.	
		3
4.	What is the specific heat of water?	
	A. $4.184 \frac{J}{g^{\circ}C}$	
	B. $7.531 \frac{J}{g^{\circ}C}$	
	C. $2.680 \frac{J}{g^{\circ}C}$	
	D. 9.373 $\frac{J}{g^{\circ}C}$	

5.	Which of the following is the same in all isotopes of an ele	ement?
	A. Number of protons	
	B. Number of neutrons	
	C. Number of electrons	
	D. Atomic mass	
		F
		5
6.	Which of the following has the largest atomic radius?	
	Li Be	
	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
	$\begin{bmatrix} 140 & 148 \\ 11 & 12 \end{bmatrix}$	
	A. Li	
	B. Na	
	C. Be	
	D. Mg	
		0
		6
7.	Which is the correct order of these columns of the periodi	ic table, from left to right?
	I Alkaline earth metals	
	II Halogens	
	III Noble gases	
	IV Transition metals	
	A. IV, III, I, II.	
	B. I, IV III, II.	
	C. IV, I, II, III.	
	D. I, IV, II, III.	
	E. II, IV, III, I.	
		7
8	Which numbers correctly balance the equation below?	
٠.	$\boxed{ \begin{array}{c} \text{C_2H}_7$N + O}_2 \longrightarrow \text{$\text{CO}}_2 + \text{H}_2\text{O} + \text{NO} \end{array} }$	
	A. 2, 4, 4, 7, 2	
	B. 2, 8, 4, 7, 2	
	C. 8, 34, 4, 28, 8	
	D. 4, 17, 8, 14, 4	
	2. 2, 2., 0, 22, 1	