NAME	JCTURE PRACTICE	DATE fest #3	PER
ATOMIC STRU	CTUREFRACTICE .	1LS1 #3	
THERE MAY E	BE MORE THAN ONE	E CORRECT ANSWE	ER TO THE QUESTIONS BEI
1. Which subato	mic particle is located	in the nucleus?	
a) protons	b) electrons	c) neutrons	
2. Which subate	mic particle is located	outside the nucleus?	
a) protons	b) electrons	c) neutrons	
3. Which subato	mic particle has the lea	ist mass?	
a) protons	b) electrons	c) neutrons	
4. Which subato	mic particle is represer	nted by the atomic nur	mber?
a) protons	b) electrons	c) neutrons	
5. Which subato	mic particle is represer	nted by the mass num	ber?
a) protons	b) electrons	c) neutrons	
6. Which subato	mic particle account fo	or the charge of an ato	m?
a) protons	b) electrons	c) neutrons	
7. Which subato	mic particle is responsi	ible for the reactivity	of an element?
a) protons	b) electrons	c) neutrons	
8. Which subato	mic particle has a char	ge of +1?	
a) protons	b) electrons	c) neutrons	
9. Which subato	mic particle has a char	ge of -1?	
a) protons	b) electrons	c) neutrons	
10. Which subat	comic particle occupies	orbitals that surround	the nucleus?
a) protons	b) electrons	c) neutrons	
11. What is the	maximum number of el	ectrons that can exist	an any p <i>sublevel</i> ?
a.1 b	.2 c. 3	d. 4 6	e. 5 f. 6
12. What is the	maximum number of el	ectrons that can exist	an any f <i>orbital</i> ?
a.1 b	.2 c.4	d. 6 6	e. 14 f. 18
•		•	harged atoms to identify the
	xample of an		domission
a. electron	b. orbital	c. absorption	d. emission
			on to identify the elements is an
example of an _ a. electron	spect spect	c. absorption	d. emission
		±	
15 3371 1 6.4	e following is a valid su	ublaval designation?	

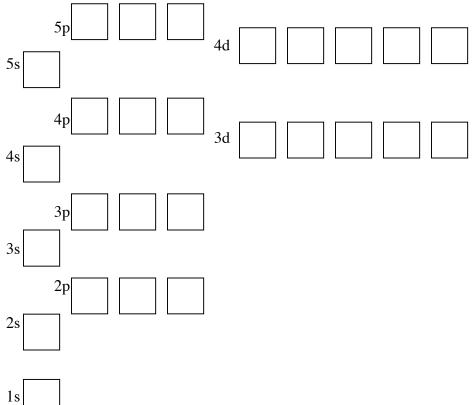
16. ATOMS

Nuclear Symbol	Atomic #	Mass #	# p ⁺	#e ⁻	#n ⁰	Hyphen Notation
	13	27				
				82	125	
						STRONTIUM-88

17. IONS

Nuclear	Atomic #	Mass #	# p+	#e ⁻	$\#n^0$	Charge
Symbol						
¹¹³ ₄₈ Cd ⁺²						
				36	39	-3
	11	23		10		

18. Fill the orbital diagram for Sn



19. Write the complete electron configuration for I.

20. Write the complete electron configuration for the Al.

21. Write the noble gas electron configuration (shorthand) notation of Ge.

22. Write the noble gas electron configuration (shorthand) notation of In.

23. Write the outer electron configuration (battleship notation) for Pd (only the last sublevel).

24. What is the outer electron configuration (battleship notation) for Te (only the last sublevel).

ISOTOPES	MASS (amu)	Percent Abundance
Pb-206	205.946	9.35
Pb-207	206.941	73.8
Pb-208	207.941	14.5
Pb-209	208.939	2.35

25. Use the following data to calculate the average atomic mass of lead.

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