Quizizz

NAME : _____

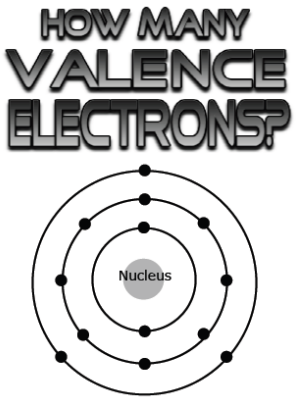
CLASS : _____

DATE : _____

Valence Electrons

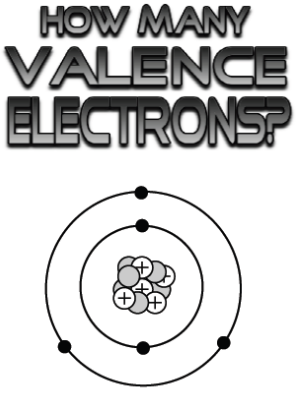
22 Questions

1.



- [ ] a) 2
- [ ] b) 8
- [ ] c) 3
- [ ] d) 13

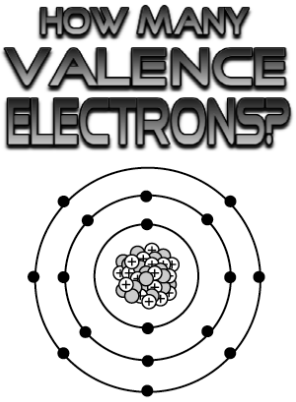
2.



- [ ] a) 2
- [ ] b) 3
- [ ] c) 5

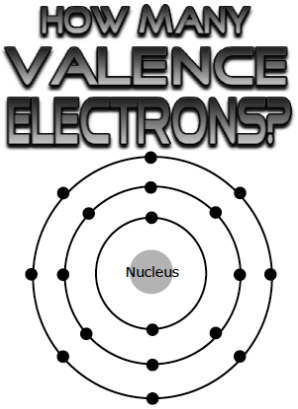
Help

3.



- [ ] a) 12
- [ ] b) 7
- [ ] c) 8
- [ ] d) 14

4.

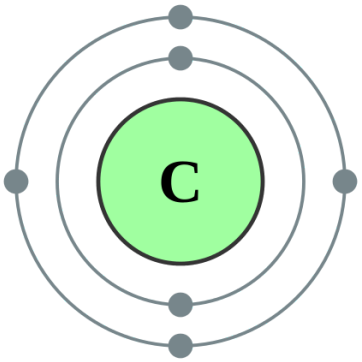


- [ ] a) 7
- [ ] b) 8
- [ ] c) 9
- [ ] d) 10

5. Valence electrons are the...

- [ ] a) Innermost electrons
- [ ] b) Middle electrons
- [ ] c) Outermost electrons
- [ ] d) Any electrons

6. How many valence electrons does carbon have?



- [ ] a) 4
- [ ] b) 5
- [ ] c) 6
- [ ] d) 7

7. USE THE PERIODIC TABLEHow many valence electrons does carbon have?

- [ ] a) 4
- [ ] b) 12
- [ ] c) 6
- [ ] d) 14

8. USE THE PERIODIC TABLEHow many valence electrons does sodium have?

- [ ] a) 1
- [ ] b) 2
- [ ] c) 3
- [ ] d) 4

9. USE THE PERIODIC TABLEHow many valence electrons does Phosphorus have?

- [ ] a) 31
- [ ] b) 5
- [ ] c) 15
- [ ] d) 4

10. USE THE PERIODIC TABLEFind the element that has 3 Valence Electrons and 2 energy levels.

- [ ] a) Magnesium - Mg
- [ ] b) Lithium - Li
- [ ] c) Aluminum - Al
- [ ] d) Boron - B

11. USE THE PERIODIC TABLEFind the element that has 5 Valence Electrons and 4 energy levels.

- [ ] a) Arsenic - As
- [ ] b) Selenium - Se
- [ ] c) Calcium - Ca
- [ ] d) Vanadium - V

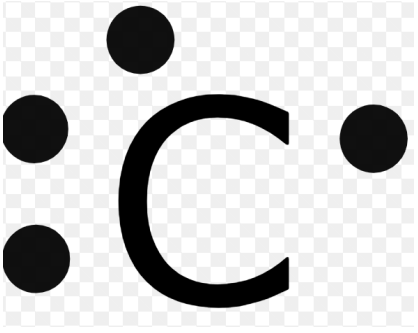
12. Elements in the same column of the periodic table always have the same # of _____ as one another.

- [ ] a) Protons
- [ ] b) Neutrons
- [ ] c) Electrons
- [ ] d) Valence Electrons

13. 

Is this the correct Lewis Dot Structure for Boron?

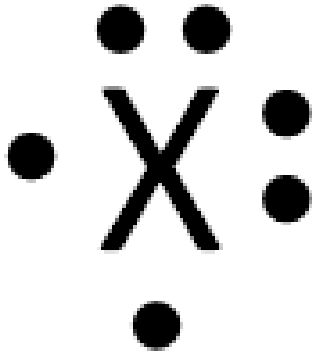
- [ ] a) Yes
- [ ] b) No, missing electrons
- [ ] c) No, too many electrons
- [ ] d) No, dots are in wrong place.

14. 

Is this correct way to draw the Lewis Dot Structure for Carbon?

- [ ] a) Yes
- [ ] b) No, too many electrons
- [ ] c) No, not enough electrons
- [ ] d) No, dots are in wrong places

15. This could be the dot diagram of



- [ ] a) Mg
- [ ] b) Cl
- [ ] c) C
- [ ] d) O

16. What is the goal of the Lewis Dot Structure?

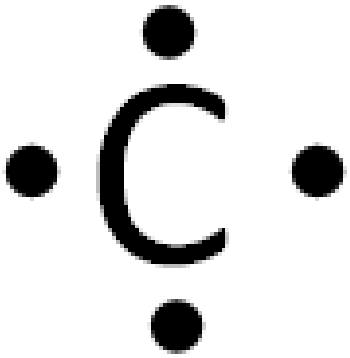
- [ ] a) To determine the electron position.
- [ ] b) To show the element's valence electrons & bonding capabilities.
- [ ] c) To find the atomic mass of an element.
- [ ] d) To search for the number of electrons in an individual atom.

17. How many valence electrons should Magnesium have in its Lewis dot model?

- [ ] a) 1
- [ ] b) 2
- [ ] c) 3
- [ ] d) 4

18. This is a correct dot diagram for neon (Ne)

- [ ] a) true
- [ ] b) false

19. 

This is a correct dot diagram for carbon (C)

☐ a) true ☐ b) false

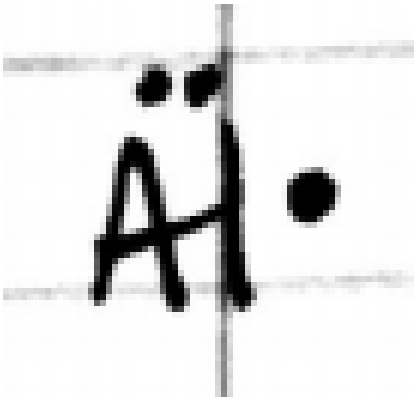
20. 

This is a correct dot diagram for nitrogen (N)

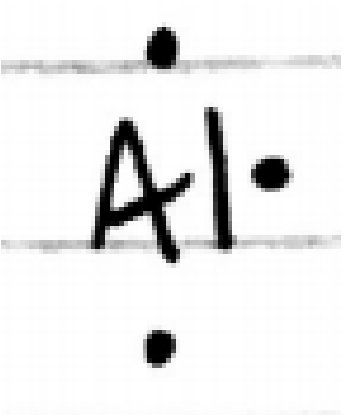
☐ a) true ☐ b) false

21. Which ones are acceptable?

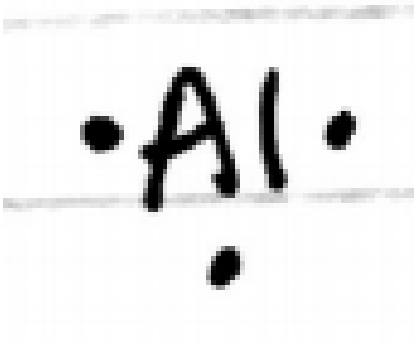
☐ a)



☐ b)

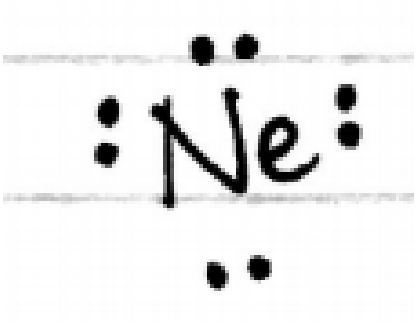


☐ c)

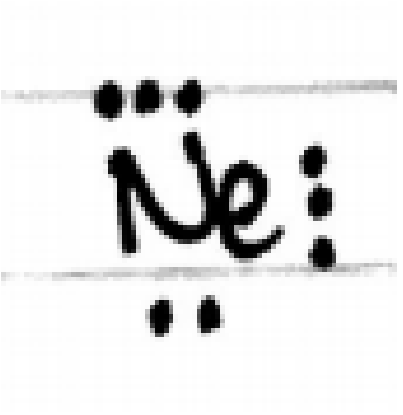


22. Which of these is incorrect?

☐ a)



☐ b)



Answer Key

1. c
2. b
3. b
4. b
5. c
6. a
7. a
8. a
9. b
10. d
11. a
12. d
13. a
14. d
15. d
16. b
17. b
18. b
19. a
20. a
21. b,c
22. b