

Valence Electrons Worksheet

1. How many valence electrons are in the following elements?

- a. Fluorine ____ b. Phosphorus ____ c. Calcium ____ d. Iron ____
e. Lithium ____ f. Zinc ____ g. Carbon ____ h. Iodine ____

2. Draw the atomic structures for the following. Include the number of protons and neutrons.

a. Silicon

Protons(p) _____

Neutrons(n) _____

b. Potassium

Protons(p) _____

Neutrons(n) _____

c. Sulfur

Protons(p) _____

Neutrons(n) _____

d. Beryllium

Protons(p) _____

Neutrons(n) _____

e. Argon

Protons(p) _____

Neutrons(n) _____

f. Nitrogen

Protons(p) _____

Neutrons(n) _____

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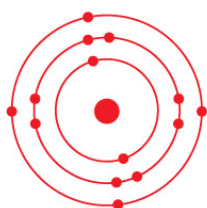
Answers

1. How many valence electrons are in the following elements?

- a. Fluorine 7 b. Phosphorus 5 c. Calcium 2 d. Iron 8
e. Lithium 1 f. Zinc 2 g. Carbon 4 h. Iodine 7

2. Draw the atomic structures for the following. Include the number of protons and neutrons.

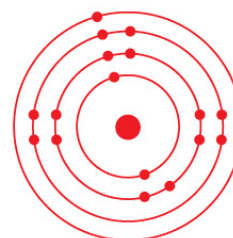
a. Silicon



Protons(p) 14

Neutrons(n) 14

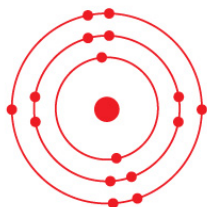
b. Potassium



Protons(p) 19

Neutrons(n) 20

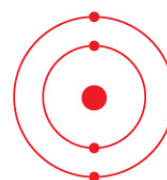
c. Sulfur



Protons(p) 16

Neutrons(n) 16

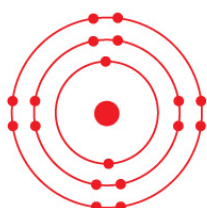
d. Beryllium



Protons(p) 4

Neutrons(n) 5

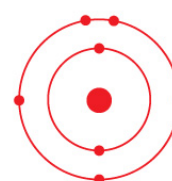
e. Argon



Protons(p) 18

Neutrons(n) 22

f. Nitrogen



Protons(p) 7

Neutrons(n) 5