Periodic Table Worksheet

Use the following clues to determine the elements being described and fill in the missing information.

1. Each atom of this element has 9 protons and 10 neutrons. The atomic number of the element is _(1)_. The mass number is _(2)_. The number of valence electrons is _(3)_. This element can be found in the _(4)_ family on the periodic table. The valence configuration of this atom is _(5)_. This element is classified as a(n) _(6)_. This element is _(7)_, with a symbol of _(8)_.

2. This element is a metalloid of Group IV. It has _(9)_ valence electrons on the third energy level. Its name is _(10)_, symbol _(11)_. Its atomic number is _(12)_ and its mass number is _(13)_. This element has _(14)_ neutrons.

3. This is a Halogen and is found in Group _(15)_. It has _(16)_ valence electrons. It has 17 electrons in a neutral atom. The element is _(17)_, symbol _(18)_. It has _(19)_ protons and a mass number of 35. How many neutrons does it have?_(20)_

4. This element is the largest of period three. It is _(21)_, symbol _(22)_. Its atomic number is _(23)_ and it is found in the family _(24)_.

5. Each atom of this element has 56 protons and 81 neutrons. The atomic number is _(25)_ and the atomic mass number is _(26)_. The number of valence electrons this atom has is _(27)_ because it is found in Group _(28)_. The element is _(29)_, symbol _(30)_.

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6. This is a Group II element with 12 protons. The number of electrons in a neutral atom of this element is _(31)_. It has _(32)_ valence electrons on the _(33)_ energy level. The family name of this element is _(34)_. The mass number is _(35)_ and there are _(36)_ neutrons in an atom of this element.

7. This element has the maximum number of valence electrons in period 4. It is _(37)_, symbol _(38)_, atomic number _(39)_, mass number _(40)_ and it has _(41)_ neutrons. Its family name is _(42)_.

8. This element is a transition metal. It has _(43)_ valence electrons and is found in period 5. It has a nuclear charge of +47. The element is _(44)_, symbol _(45)_ and atomic number _(46)_. Its mass number is _(47)_ and it has _(48)_neutrons in its nucleus.

9. This element has a mass number of 40 but it only has 2 valence electrons. It is not a transition metal. It is found in Group _(49)_ and has electrons in _(50)_ energy levels. The element is _(51)_, symbol _(52)_ and atomic number _(53)_.

10. This element has the largest atoms of Period 4. The atomic number of this element is _(54)_. The number of protons in one atom of this element is _(55)_. An atom of this element has _(56)_ valence electrons and has _(57)_ completely filled quantum levels. The element is a member of the _(58)_ family. The element is _(59)_, symbol _(60)_.

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