

Answers

1. Complete the missing information in the following table: (5 points)

<i>Element name</i>	<i>Element Symbol</i>	<i>Atomic Number</i>	<i>Number of protons</i>	<i>Number of electrons in neutral atom</i>
chlorine	Cl	17	17	17
rubidium	Rb	37	37	37
nitrogen	N	7	7	7
scandium	Sc	21	21	21
Potassium	K	19	19	19

2. True or false? **Circle** your answer. (5 points)

False

True

False

False

False

3. Short answer. (5 points)

57

electron

alpha

53

34

4. Calculate the atomic number and mass number for an atom with 38 protons, 41 neutrons and 36 electrons. What element is it? What is the atom's symbol? Give the symbol for this isotope in the form A_ZX . Is this atom electrically neutral? Explain. (5 points)

Strontium, Sr, ${}^{79}_{38}\text{Sr}$ Not neutral, different number of electrons and protons