

Name : _____ Score : _____ Date : _____

Protons, Neutrons, Electrons, and Atomic Mass

1. Using the periodic table, fill in the missing information for the given elements.

Element	Atomic number	Atomic mass	Number of protons	Number of neutrons	Number of electrons
S	16		16		
	17	35			17
	18		18	22	
	19	39			19
Ca	20		20		

2. Provide the symbol and charge (where appropriate) for each of the following elements. Indicate if the atom is neutral (N), an anion (A), or a cation (C). See example.

# of protons, # of electrons	Symbol	N, A, or C
19 p, 18 e ⁻	K ⁺	C
33 p, 36 e ⁻		
30 p, 30 e ⁻		
26 p, 23 e ⁻		
35 p, 36 e ⁻		
	Ca ⁺²	
	N ⁻³	
	Al	N

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1. Answers

Element	Atomic number	Atomic mass	Number of protons	Number of neutrons	Number of electrons
S	16	32	16	16	16
Cl	17	35	17	18	17
Ar	18	40	18	22	18
K	19	39	19	20	19
Ca	20	40	20	20	20

2.

# of protons, # of electrons	Symbol	N, A, or C
19 p, 18 e ⁻	K ⁺	C
33 p, 36 e ⁻	As ⁻³	A
30 p, 30 e ⁻	Zn	N
26 p, 23 e ⁻	Fe ⁺³	C
35 p, 36 e ⁻	Br ⁻	A
20 p, 18 e ⁻	Ca ⁺²	C
7 p, 10 e ⁻	N ⁻³	A
13 p, 13 e ⁻	Al	N