

Name: _____

Date: _____

Element	Symbol	Z	Mass #	Protons	Neutrons	Electrons	An/Cat/Neut
	Zr ²⁺						
				72		68	
platinum						76	
	Te ²⁻			52			
			209		126		neutral
			96				
osmium						68	
		47				46	
	I ⁻						
				14	14	14	
neon							neutral
	U ⁵⁺						
			184			71	
	Kr						
	Sn ⁴⁺						
sulfur						18	
	²⁺					10	
	As ³⁻						
	³⁺	58					
copper						29	
			207			82	
	Nd ³⁺						
	-			35			
				40		36	
barium						54	cation
				34			
			122		71		
rhenium			184				neutral
						67	
	Br ⁻		82				
	³⁺	61					
argon				18			

Draw the symbol for the particle with the following characteristics. Identify the type of ion and the name of the element.

24 protons, 31 neutrons, 26 electrons

75 protons, 98 neutrons, 72 electrons

18 protons, 23 neutrons, 24 electrons

53 protons, 70 neutrons, 49 electrons

Determine the average atomic mass for the elements with the following isotopes and relative abundances:

Element X-23 (63.4%)

Element X-25 (15.2%)

Element X-26 (21.4%)

Wactorium-85 (15.6%)

Wactorium-86 (52.1%)

Wactorium-88 (19.3%)

Wactorium-90 (13.0%)

Dwaxium-112 (95.2%)

Dwaxium-116 (3.1%)

Dwaxium-118 (1.1%)

Dwaxium-119 (0.5%)

Dwaxium-120 (0.1%)