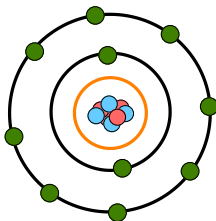


CONCEPT: ELECTRONIC STRUCTURE: NUMBER OF ELECTRONS

Number of Electrons in Shells

- Each shell for a given atom has a maximum number of electrons it can hold.

□ When only the shell number (n) is given: Number of electrons = _____.



EXAMPLE: How many electrons can be found in the 7th shell of an atom?

a) 14

b) 28

c) 49

d) 98

e) 112

PRACTICE: Theoretically, how many total electrons can be found in the 6th shell of an atom?

a) 18

b) 72

c) 8

d) 32

PRACTICE: An element possesses 4 energy levels. How many total electrons can it theoretically hold?

a) 72

b) 100

c) 110

d) 60