

Atoms: Orbital Diagrams: Quiz 2c

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Please show work where necessary!

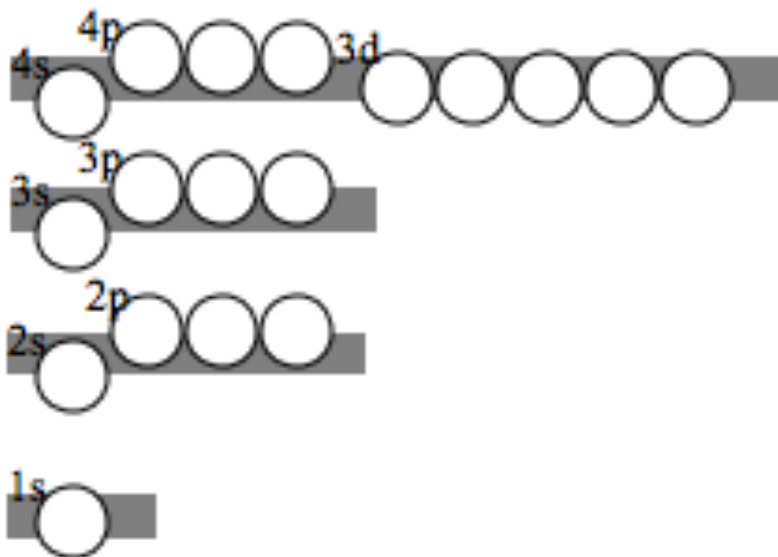
1. How many electrons can each of the following orbitals hold?

a. $3d =$ _____

b. $5f =$ _____

2. How many “f” orbitals can there be in any energy level? ___

3. Draw the orbitals below and then fill in the orbital diagram for the element **Na**:



Answers:

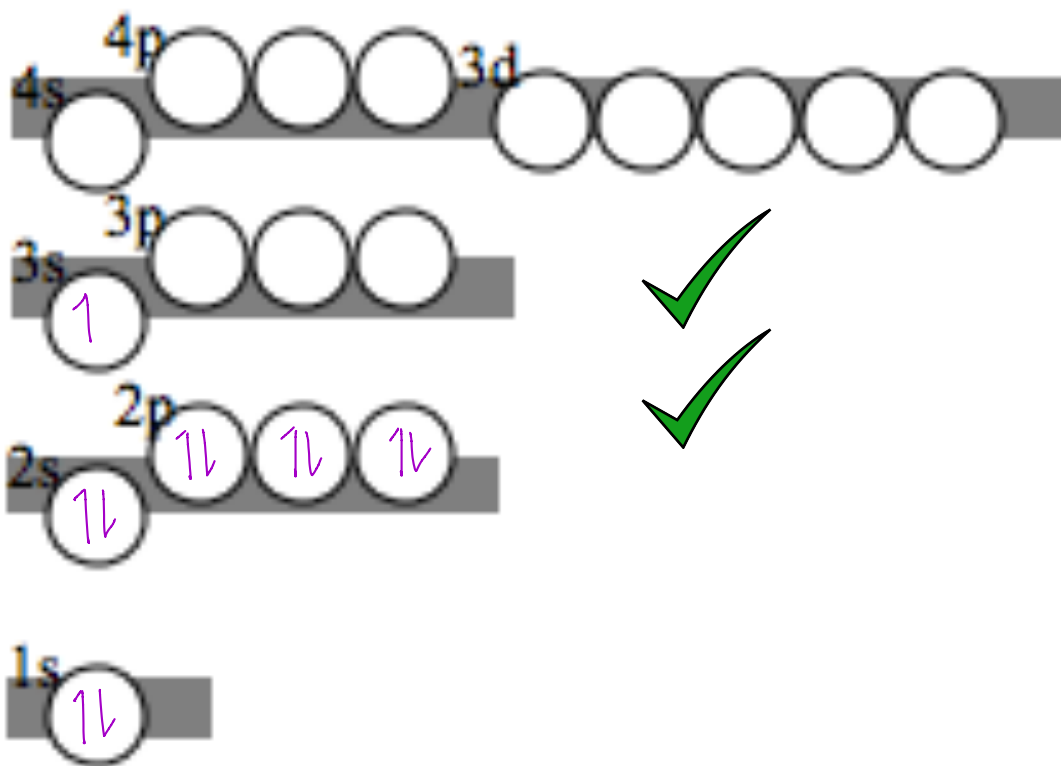
1. How many electrons can each of the following orbitals hold?

a. 3d = 10 ✓

b. 5f = 14 ✓

2. How many "f" orbitals can there be in any energy level? 7 ✓

3. Draw the orbitals below and then fill in the orbital diagram for the element Na:



Name _____ Class _____ Date _____