Chemistry Worksheet	Name
Ch 4&5 Atomic Structure	date period
Write the electron configurations (ex/ Do NOT use the noble gas core	$1s^2$) of the following elements:
$_4\mathrm{Be}$	
$_{25}$ Mn	
$_{49}In$	
2. Rewrite the configurations for the abov show the outer configurations.	e elements in Q#1, this time use the noble gas core and only
$_4\mathrm{Be}$	
$_{25}$ Mn	
$_{49}$ In	
3. For the same elements write the orbital last noble gas)	diagrams (the "arrow thing") of the outer sublevels (after the
$_4\mathrm{Be}$	
₂₅ Mn	
$_{49}\mathrm{In}$	
For each of the same elements answer a. How many full <u>main energy lev</u>	
b. How many full <u>sublevels</u> ?	
c. How many full orbitals?	
d. How many unpaired electrons?	•
e. How many electrons are in each	h <u>main energy level</u> in each atom?
f. How many valence electrons?	