```
Hw# 6 pla5 #18,24,26,27,29,30-40
       a = 1 (5) e) 3 (s,p,d) e) 7
        b) 2 sp d) 4 (s,e,d, f)
 #24
                 larger with extra energy level
  #26. Use your vocab
            Lagain
  #27.
 # 29. The highest occupied energy level is the outermost shell
                                fore example Chlorine = 1522522p63523p5
                                                         3 the highestocapied energy level.
(#30) (A) He 152 = 1
                             (D) Ca=1522522p 3523p 5432. 4
     (6) Be 15252 = 2
                              € 50 = 1522522p63523p645230104p655240105p2=5
     @ Al 75-25-20-35-3p'=3
(B) B=1522522p1
                       8 8 000
15 25 2p
    @ Na=1522522p635'
                          8 8 888
15 25 29
    (D) 0=1522522p4
                          8 8 800
15 25 20
(32) (A) 152251 (B) 1522522p2 (C) 1522522p4 (D) 1522522p6 3523p1
(33) @ 8 (6) 8 (C) 2 (sacondital diagram) (O) Z (E) Z (F) 1 (9) 5
(34) Obroup 18 (6) using noble gas to substitute for larger electron configurations.
     @ You just write the Noble gos symbol and exprything after.
 (35) @ [Ne] 3523p5 (B) [Ar] 452 @ [Ar] 4523d104p3
(36) aThe atom has 2 more electrons than News. (B) Magnesium
(37) (a) Na 1522522p635' (b) 5r 1522522p63523p645230164p6552 (c) P 152522p63523p3
[Ne]35' [Kr]552 [Kr]552
                                                            [Ne] 3523p3
```

39 @ B B F @ Mg @ Si @ CI @ K@ Fe

(39) 15225221 (3523p (4523) 104p (5524) 105p (6524+ 1450) 6p (7525+ 1460) 107p 6

(40) A [Ar] 4523d 10 4p3

@ Po = [x=] G524+1450 106p2

@ Lr = [Rn] 752 54 16

@ Hg = [x=]7525446d10

@ Sn = [Kr] 5824d10 5p2

(F) KE = [Kr] 55240105,6

(9) LA = [xe] 652 4F'
5d'0