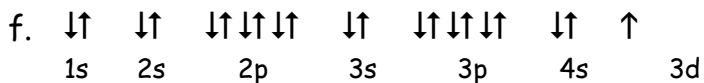
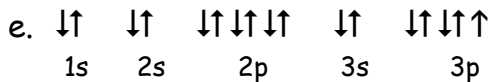
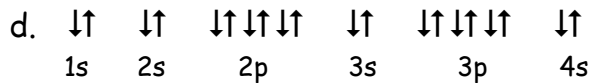
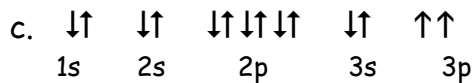
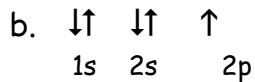
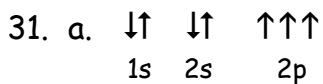


Homework

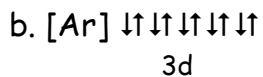
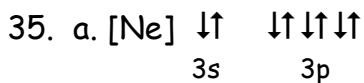
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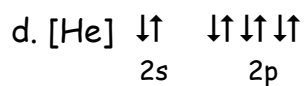
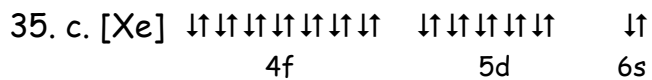
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29. a. $[\text{Xe}]6s^1$
 b. $[\text{Kr}]5s^2$
 c. $[\text{Ar}]4s^23d^2$
 d. $[\text{Kr}]5s^24d^{10}5p^3$
 e. $[\text{Ar}]4s^23d^{10}4p^5$
 f. $[\text{Xe}]6s^24f^{14}5d^{10}6p^2$



33. $[\text{Xe}]6s^24f^{14}5d^5$ This tells us that Re is in the 6th row and is the 5th element in the d block of the 6th row.





37. None are correct.

41. These answers are found using the numbering system on the periodic table at the front of your text.

- a. Period 2 Group 8A
- b. Period 3 Group 4A
- c. Period 3 Group 1A
- d. Period 2 Group 2A
- e. Period 2 Group 5A
- f. Period 3 Group 3A

43. a. 5
b. 32
c. 5
d. 2
e. 10