

## Answers to practice problems page 108

39. 54

40. 80

41. 9

42. 33

43. a.  ${}_{92}^{234}\text{U}$

b.  ${}_{92}^{235}\text{U}$

c.  ${}_{92}^{238}\text{U}$

44.

Isotope	Number of protons	Number of electrons	Number of neutrons
Si-28	14	14	14
Si-29	14	14	15
Si-30	14	14	16

45.  ${}_{6}^{12}\text{C}$  and  ${}_{6}^{13}\text{C}$

46.  ${}_{56}^{130}\text{Ba}$  and  ${}_{56}^{137}\text{Ba}$