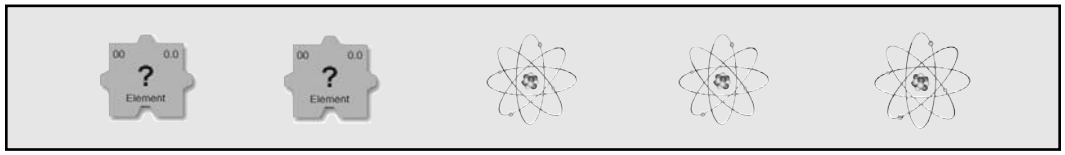
Quiz 10-2 Answer Key



1. gamma rays
2. alpha
3. (a) helium
4. (c) electrons
5. (b) the nucleus of an atom
6. (a) gamma rays
7. (d) time for one-half of a sample of radioactive material to disintegrate
8. isotopes
9. (b) 462 years
10. (d) gamma ray
11. radiation poisoning
12. internal bleeding
13. (c) white blood cells to fight infection
14. dosimeter
15. (a) illness from undiagnosed radiation poisoning
16. two
17. (a) True
18. (b) eight
19. (d) have a low atomic mass similar to that of carbon
20. 1934
21. (b) never
22. (d) positive
23. (c) at room temperature
24. (d) thermal neutrons
25. (d) uranium
26. (a) split into two roughly equal pieces
27. (c) split
28. chain
29. (a) binding energy
30. (a) Enrico Fermi's first controlled and sustained nuclear chain reaction
31. (b) have the same chemical properties
32. critical
33. (b) air
34. (d) prevent the accidental release of radioactive elements
35. (a) True
36. *success*
37. *money*
38. *little*
39. *begin*
40. *stick*