

Name \_\_\_\_\_

Chemistry

\_\_\_/\_\_\_/\_\_\_

### Chapter 6 Practice Test Problems

Write complete balanced equations for each of the following. Work each equation out on a separate sheet of paper and write only your answers on this sheet.

1. iron + iodine  $\rightarrow$
2. methane ( $\text{CH}_4$ ) + oxygen  $\rightarrow$
3. aluminum oxide + water  $\rightarrow$
4. gold(III) bromide + potassium  $\rightarrow$
5. potassium sulfide + lead(II) nitrate  $\rightarrow$
6. water  $\rightarrow$
7. nickel + chlorine  $\rightarrow$
8. dinitrogen pentoxide ( $\text{N}_2\text{O}_5$ ) + water  $\rightarrow$
9. propane ( $\text{C}_3\text{H}_8$ ) + oxygen  $\rightarrow$
10. sodium chloride + iodine  $\rightarrow$
11. calcium hydroxide + hydrogen sulfate  $\rightarrow$
12. hydrogen + oxygen  $\rightarrow$
13. aluminum chlorate  $\rightarrow$
14. potassium phosphate + barium chloride  $\rightarrow$
15. water + calcium  $\rightarrow$
16. octane ( $\text{C}_8\text{H}_{16}$ ) + oxygen  $\rightarrow$
17. strontium oxide + water  $\rightarrow$
18. potassium + bromine  $\rightarrow$
19. lead + oxygen  $\rightarrow$
20. sulfur dioxide ( $\text{SO}_2$ ) + water  $\rightarrow$
21. ferric chloride + hydrogen phosphate  $\rightarrow$
22. iodine + aluminum fluoride  $\rightarrow$
23. calcium oxide + water  $\rightarrow$
24. 2-butyne ( $\text{C}_4\text{H}_6$ ) + oxygen  $\rightarrow$

25. plumbic carbonate →
26. potassium chloride + water →
27. aluminum + nitrogen →
28. cesium oxide + water →
29. mercury + aurous chloride →
30. ammonium nitrate + plumbous chloride →
31. pentane (C<sub>5</sub>H<sub>12</sub>) + oxygen →
32. potassium iodide + bromine →
33. barium bromide dihydrate →
34. water + strontium →
35. aurous chloride + calcium iodide →
36. rubidium fluoride + chromium →
37. hydrogen + astatine →
38. carbon dioxide (CO<sub>2</sub>) + water →
39. barium + oxygen →
40. strontium + phosphorus →
41. platinum(IV) iodide + hydrogen →
42. calcium chloride →
43. iron(II) oxide + water →
44. gallium + sulfur →
45. nonene (C<sub>9</sub>H<sub>18</sub>) + oxygen →
46. ferric nitride →
47. ammonium chloride + sodium nitrate →
48. calcium carbonate →
49. nickelous sulfide →
50. lithium + selenium →
51. cuprous oxide + water →

52. sodium chlorate →
53. barium + sulfur →
54. potassium iodide →
55. silver nitrate + mercury(II) chloride →
56. magnesium bromide + manganese(VI) iodide →
57. ethene (C<sub>2</sub>H<sub>4</sub>) + oxygen →
58. radium + nitrogen →
59. sulfur trioxide (SO<sub>3</sub>) + water →
60. tin + cuprous bromide →
61. silver nitride →
62. nickelic chlorate + cadmium sulfate →
63. magnesium + chlorine →
64. manganese(III) oxide + magnesium →
65. calcium nitrate + barium carbonate →
66. sodium oxide + water →
67. heptane (C<sub>7</sub>H<sub>16</sub>) + oxygen →
68. aluminum bromide + copper →
69. yttrium + oxygen →
70. chlorine + chromium(II) bromide →
71. tin(II) oxide + water →
72. barium sulfide + ammonium sulfate →
73. zinc oxide + magnesium iodide →
74. uranium(IV) fluoride + bromine →
75. plumbic oxide →
76. oxygen + calcium →