BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 9

1. $Fe_2O_3 + 3\ C = \_\_\_\_\ CO + 2\ Fe$
2. $Cu_2S + \_\_\_\_\ Cu_2O = SO_2 + 6\ Cu$
3. $Fe_2O_3 + \_\_\_\_\ H_2SO_4 = \_\_\_\_\ H_2O + Fe_2(SO_4)_3$
4. $3\ Cl_2 + \_\_\_\_\ Al = 2\ AlCl_3$
5. $\_\_\_\_\ HNO_3 + Ca(OH)_2 = Ca(NO_3)_2 + \_\_\_\_\ H_2O$
6. $\_\_\_\_\ HCl + Ba(OH)_2 = BaCl_2 + \_\_\_\_\ H_2O$
7. $K_2O + H_2O = \_\_\_\_\ KOH$
8. $\_\_\_\_\ HI + Pb(NO_3)_2 = \_\_\_\_\ HNO_3 + PbI_2$
9. $\_\_\_\_\ Ag + 2\ H_2O = \_\_\_\_\ AgOH + H_2$
10. $Ca(OH)_2 + \_\_\_\_\ NH_4Cl = CaCl_2 + \_\_\_\_\ H_2O + 2\ NH_3$
11. $MgCl_2 + \_\_\_\_\ NaOH = Mg(OH)_2 + \_\_\_\_\ NaCl$
12. $\_\_\_\_\ NaCl + H_2SO_4 = Na_2SO_4 + \_\_\_\_\ HCl$
13. $\_\_\_\_\ SO_3^{\{-2\}} + 2\ IO_3 + 8\ H^{\{+\}} = 2\ SO_4^{\{+2\}} + I_2 + \_\_\_\_\ H_2O$
14. $CaCl_2 + Na_2SO_4 = CaSO_4 + \_\_\_\_\ NaCl$
15. $C_5H_{12} + \_\_\_\_\ O_2 = \_\_\_\_\ C + 6\ H_2O$
16. $Pb_3O_4 + \_\_\_\_\ HNO_3 = 2\ Pb(NO_3)_2 + PbO_2 + \_\_\_\_\ H_2O$
17. $3\ Cu + \_\_\_\_\ HNO_3 = 3\ Cu(NO_3)_2 + \_\_\_\_\ NO + 4\ H_2O$
18. $AlN + \_\_\_\_\ H_2O = Al(OH)_3 + NH_3$
19. $K_2Cr_2O_7 + 14\ HCl = \_\_\_\_\ KCl + 2\ CrCl_3 + \_\_\_\_\ Cl_3 + 7\ H_2O$
20. $Mg + \_\_\_\_\ HCl = H_2 + MgCl_2$

ANSWERS

1. $Fe_2O_3 + 3\ C = 3\ CO + 2\ Fe$
2. $Cu_2S + 2\ Cu_2O = SO_2 + 6\ Cu$
3. $Fe_2O_3 + 3\ H_2SO_4 = 3\ H_2O + Fe_2(SO_4)_3$
4. $3\ Cl_2 + 2\ Al = 2\ AlCl_3$
5. $2\ HNO_3 + Ca(OH)_2 = Ca(NO_3)_2 + 2\ H_2O$
6. $2\ HCl + Ba(OH)_2 = BaCl_2 + 2\ H_2O$
7. $K_2O + H_2O = 2\ KOH$
8. $2\ HI + Pb(NO_3)_2 = 2\ HNO_3 + PbI_2$
9. $2\ Ag + 2\ H_2O = 2\ AgOH + H_2$
10. $Ca(OH)_2 + 2\ NH_4Cl = CaCl_2 + 2\ H_2O + 2\ NH_3$
11. $MgCl_2 + 2\ NaOH = Mg(OH)_2 + 2\ NaCl$
12. $2\ NaCl + H_2SO_4 = Na_2SO_4 + 2\ HCl$
13. $2\ SO_3^{\{-2\}} + 2\ IO_3 + 8\ H^{\{+\}} = 2\ SO_4^{\{+2\}} + I_2 + 4\ H_2O$
14. $CaCl_2 + Na_2SO_4 = CaSO_4 + 2\ NaCl$
15. $C_5H_{12} + 3\ O_2 = 5\ C + 6\ H_2O$
16. $Pb_3O_4 + 4\ HNO_3 = 2\ Pb(NO_3)_2 + PbO_2 + 2\ H_2O$
17. $3\ Cu + 8\ HNO_3 = 3\ Cu(NO_3)_2 + 2\ NO + 4\ H_2O$
18. $AlN + 3\ H_2O = Al(OH)_3 + NH_3$
19. $K_2Cr_2O_7 + 14\ HCl = 2\ KCl + 2\ CrCl_3 + 2\ Cl_3 + 7\ H_2O$
20. $Mg + 2\ HCl = H_2 + MgCl_2$

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