BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 85

1. $Mg(HCO_3)_2$ + ___ $C_6H_8O_6$ = $Mg(C_6H_7O_6)_2$ + ___ H_2O + ___ CO_2
2. 3 F_2 + Cl_2 = _____ ClF_3
3. _____ $Ba(NO_3(s))_2(s)$ = _____ BaO + 4 $NO_2(s)$ + $O_2(s)$
4. _____ $Hg(NO_3)_2$ = 2 HgO + _____ NO_2 + O_2
5. S_8 + _____ O_2 = _____ SO_3
6. 4 NH_3 + _____ O_2 = 4 NO + _____ H_2O
7. _____ C_4H_{10} + _____ O_2 = 8 CO_2 + 10 H_2O
8. S + _____ HNO_3 = H_2SO_4 + _____ NO_2 + 2 H_2O
9. _____ $LaCl_3$ + _____ NH_4CO_3 = CO_2 + $La_2(CO_3)_3$ + 4 NH_4Cl + Cl_2O
10. 2 $MgNH_4PO_4$ = $Mg_2P_2O_7$ + _____ NH_3 + H_2O
11. 2 Cu_2FeS_3 + _____ O_2 = 4 Cu + _____ FeO + _____ SO_2
12. 8 KI + _____ H_2SO_4 = _____ K_2SO_4 + 4 I_2 + H_2S + _____H_2O
13. 2 $KCLO_3$ = _____ $KCLO_2$ + O_2
14. MnO_2 + _____ HCl = Cl_2 + $MnCl_2$ + _____ H_2O
15. Cu + _____ HNO_3 = $Cu(NO_3)_2$ + _____ NO_2 + 2 H_2O
16. 2 $Ca_3(PO_4)_2$ + _____ SiO_2 + 10 C = _____$CaSiO_3$ + P_4 + 10 CO
17. $Be(OH)_2$ + _____ NH_4HF_2 = $(NH_4)_2BeF_4$ + _____ H_2O
18. 2 $AgCh_3COO$ = $(Ch_3COO)_2$ + _____ Ag
19. Br_2 + _____ AgI = _____ Ag + 2 BrI
20. V_2O_5 + _____ Ca = 2 V + _____CaO

ANSWERS

1. $Mg(HCO_3)_2 + 2\ C_6H_8O_6 = Mg(C_6H_7O_6)_2 + 2\ H_2O + 2\ CO_2$
2. $3\ F_2 + Cl_2 = 2\ ClF_3$
3. $2\ Ba(NO_3(s))_2(s) = 2\ BaO + 4\ NO_2(s) + O_2(s)$
4. $2\ Hg(NO_3)_2 = 2\ HgO + 4\ NO_2 + O_2$
5. $S_8 + 12\ O_2 = 8\ SO_3$
6. $4\ NH_3 + 5\ O_2 = 4\ NO + 6\ H_2O$
7. $2\ C_4H_{10} + 13\ O_2 = 8\ CO_2 + 10\ H_2O$
8. $S + 6\ HNO_3 = H_2SO_4 + 6\ NO_2 + 2\ H_2O$
9. $2\ LaCl_3 + 4\ NH_4CO_3 = CO_2 + La_2(CO_3)_3 + 4\ NH_4Cl + Cl_2O$
10. $2\ MgNH_4PO_4 = Mg_2P_2O_7 + 2\ NH_3 + H_2O$
11. $2\ Cu_2FeS_3 + 7\ O_2 = 4\ Cu + 2\ FeO + 6\ SO_2$
12. $8\ KI + 5\ H_2SO_4 = 4\ K_2SO_4 + 4\ I_2 + H_2S + 4\ H_2O$
13. $2\ KCLO_3 = 2\ KCLO_2 + O_2$
14. $MnO_2 + 4\ HCl = Cl_2 + MnCl_2 + 2\ H_2O$
15. $Cu + 4\ HNO_3 = Cu(NO_3)_2 + 2\ NO_2 + 2\ H_2O$
16. $2\ Ca_3(PO_4)_2 + 6\ SiO_2 + 10\ C = 6\ CaSiO_3 + P_4 + 10\ CO$
17. $Be(OH)_2 + 2\ NH_4HF_2 = (NH_4)_2BeF_4 + 2\ H_2O$
18. $2\ AgCh_3COO = (Ch_3COO)_2 + 2\ Ag$
19. $Br_2 + 2\ AgI = 2\ Ag + 2\ BrI$
20. $V_2O_5 + 5\ Ca = 2\ V + 5\ CaO$

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