BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 2

1. _____ S_8 + 40 H_2SO_4 = _____ SO_2 + 4 H_{20}
2. 2 Al + _____ H_3Po_4 = 3 H_2 + _____ $AlPo_4$
3. 2 KCN + _____ H_2SO_4 + 2 H_2O = _____ CO + K_2SO_4 + $(NH_4)_2SO_4$
4. _____ N_2H_4 = _____ NH_3 + N_2
5. $(NH_4)_2Cr_2O_7$ = Cr_2O_3 + _____ H_2O + N_2
6. 2 KCN + _____ H_2SO_4 + 2 H_2O = _____ CO + K_2SO_4 + $(NH_4)_2SO_4$
7. Zn + _____ H_2SO_4 = $ZnSO_4$ + SO_2 + _____ H_2O
8. _____ Al + 3 O_2 = _____ Al_2O_3
9. _____ Fe + 3 Cl_2 = _____ $FeCl_3$
10. _____ KBr(aq) + Na_2CO_3(aq) = _____ NaBr + K_2CO_3
11. $Ca(OH)_2$ + _____ CO_2 = $Ca(HCO_3)_2$
12. . 4 Fe + _____ O_2 = _____ Fe_2O_3
13. Ag_2S(s) + H_2(g) = _____ Ag(s) + H_2S(g)
14. 4 Al_2O_3 + _____ Fe = 3 Fe_3O_4 + _____ Al
15. _____ NH_3 + 5 O_2 = 6 H_2O + _____ NO
16. _____ $NaHCO_3$ + $C_6H_8O_7$ = 3 H_2O + _____ CO_2 + $Na_3C_6H_5O_7$
17. 2 C_6H_{14} + _____ O_2 = 12 CO_2 + _____ H_2O
18. 2 C_3H_7OH + _____ O_2 = 6 CO_2 + _____ H_2O
19. C_5H_{12} + _____ O_2 = _____ CO_2 + 6 H_2O
20. 9 $Cu(NO_3)_2$ + _____ $Co(NO_3)_2$ + 9 $Mg(NO_3)_2$ + 9 $Zn(NO_3)_2$ + _____ $Ni(NO_3)_2$ + 50 $C_2H_5NO_2$ = 9 $(CuCoMgNiZn)O_5$ + 100 CO_2 + 125 H_2O +____ N_2

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ANSWERS

1. $5\ S_8 + 40\ H_2SO_4 = 80\ SO_2 + 4\ H_{20}$
2. $2\ Al + 2\ H_3Po_4 = 3\ H_2 + 2\ AlPo_4$
3. $2\ KCN + 2\ H_2SO_4 + 2\ H_2O = 2\ CO + K_2SO_4 + (NH_4)_2SO_4$
4. $3\ N_2H_4 = 4\ NH_3 + N_2$
5. $(NH_4)_2Cr_2O_7 = Cr_2O_3 + 4\ H_2O + N_2$
6. $2\ KCN + 2\ H_2SO_4 + 2\ H_2O = 2\ CO + K_2SO_4 + (NH_4)_2SO_4$
7. $Zn + 2\ H_2SO_4 = ZnSO_4 + SO_2 + 2\ H_2O$
8. $4\ Al + 3\ O_2 = 2\ Al_2O_3$
9. $2\ Fe + 3\ Cl_2 = 2\ FeCl_3$
10. $2\ KBr(aq) + Na_2CO_3(aq) = 2\ NaBr + K_2CO_3$
11. $Ca(OH)_2 + 2\ CO_2 = Ca(HCO_3)_2$
12. $4\ Fe + 3\ O_2 = 2\ Fe_2O_3$
13. $Ag_2S(s) + H_2(g) = 2\ Ag(s) + H_2S(g)$
14. $4\ Al_2O_3 + 9\ Fe = 3\ Fe_3O_4 + 8\ Al$
15. $4\ NH_3 + 5\ O_2 = 6\ H_2O + 4\ NO$
16. $3\ NaHCO_3 + C_6H_8O_7 = 3\ H_2O + 3\ CO_2 + Na_3C_6H_5O_7$
17. $2\ C_6H_{14} + 19\ O_2 = 12\ CO_2 + 14\ H_2O$
18. $2\ C_3H_7OH + 9\ O_2 = 6\ CO_2 + 8\ H_2O$
19. $C_5H_{12} + 8\ O_2 = 5\ CO_2 + 6\ H_2O$
20. $9\ Cu(NO_3)_2 + 9\ Co(NO_3)_2 + 9\ Mg(NO_3)_2 + 9\ Zn(NO_3)_2 + 9\ Ni(NO_3)_2 + 50\ C_2H_5NO_2 = 9\ (CuCoMgNiZn)O_5 + 100\ CO_2 + 125\ H_2O + 70\ N_2$

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