BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 70

1. _____ $CU + 8\ HNO_3 = 3\ CU(NO_3)_2$ + _____ $NO + 4\ H_2O$
2. $4\ C_1H_5O_2$ + _____ $O_2 = 4\ CO_2$ + _____ H_2O
3. _____ $FeCl_2 + KMnO_4 + 8\ HCl =$ _____ $FeCl_3 + MnCl_2 + 4\ H_2O + KCl$
4. $2\ HNO_3$ + _____ $H_2S = 2\ NO$ + _____ $S + 4\ H_2O$
5. _____ $CO_2 + 6\ H_2O = C_6H_{12}O_6$ + _____ O_2
6. $5\ HClO_3$ + _____ $P + 9\ H_2O =$ _____ $H_3PO_4 + 5\ HCl$
7. H_2SO_4 + _____ $HI = S + 3\ I_2$ + _____ H_2O
8. _____ $Al + 3\ Fe_3O_4 =$ _____ $Al_2O_3 + 9\ Fe$
9. _____ $HCOOH + O_2 = 2\ CO_2$ + _____ H_2O
10. $Na_2S_2O_3$ + _____ $HCl = S + SO_2$ + _____ $NaCl + H_2O$
11. _____ $MnO_4^{\{-\}} + 80\ NO_2^{\{-\}} + 60\ H^{\{+\}} = 20\ Mn^{\{2+\}}$ + _____ $NO_3^{\{-\}} + 3\ H_{20}$
12. $2\ ZnS$ + _____ $O_2 = 2\ ZnO$ + _____ SO_2
13. _____ $TeCl_2 + 2\ H_2O = TeO_2$ + _____ $Te + 2\ H_2TeCl_6$
14. $4\ NH_3$ + _____ $O_2 = 4\ NO_2$ + _____ H_2O
15. _____ $NaBH_4 + H_2SO_4 = B_2H_6$ + _____ $H_2 + Na_2SO_4$
16. _____ $Br_2(l) + I_2(s) =$ _____ $IBr_3(g)$
17. _____ $KClO_3 = 2\ KCl$ + _____ O_2
18. $3\ I_2O_5$ + _____ $H_2S =$ _____ $I_2 + 5\ SO_2 + 5\ H_2O$
19. _____ $Mg + 2\ H_3PO_4 = Mg_3(PO_4)_2$ + _____ H_2
20. _____ $HI + Sr(OH)_2 = SrI_2$ + _____ H_2O

ANSWERS

1. $3\ CU + 8\ HNO_3 = 3\ CU(NO_3)_2 + 2\ NO + 4\ H_2O$
2. $4\ C_1H_5O_2 + 5\ O_2 = 4\ CO_2 + 10\ H_2O$
3. $5\ FeCl_2 + KMnO_4 + 8\ HCl = 5\ FeCl_3 + MnCl_2 + 4\ H_2O + KCl$
4. $2\ HNO_3 + 3\ H_2S = 2\ NO + 3\ S + 4\ H_2O$
5. $6\ CO_2 + 6\ H_2O = C_6H_{12}O_6 + 6\ O_2$
6. $5\ HClO_3 + 6\ P + 9\ H_2O = 6\ H_3PO_4 + 5\ HCl$
7. $H_2SO_4 + 6\ HI = S + 3\ I_2 + 4\ H_2O$
8. $8\ Al + 3\ Fe_3O_4 = 4\ Al_2O_3 + 9\ Fe$
9. $2\ HCOOH + O_2 = 2\ CO_2 + 2\ H_2O$
10. $Na_2S_2O_3 + 2\ HCl = S + SO_2 + 2\ NaCl + H_2O$
11. $20\ MnO_4^{\{-\}} + 80\ NO_2^{\{-\}} + 60\ H^{\{+\}} = 20\ Mn^{\{2+\}} + 80\ NO_3^{\{-\}} + 3\ H_{20}$
12. $2\ ZnS + 3\ O_2 = 2\ ZnO + 2\ SO_2$
13. $6\ TeCl_2 + 2\ H_2O = TeO_2 + 3\ Te + 2\ H_2TeCl_6$
14. $4\ NH_3 + 7\ O_2 = 4\ NO_2 + 6\ H_2O$
15. $2\ NaBH_4 + H_2SO_4 = B_2H_6 + 2\ H_2 + Na_2SO_4$
16. $3\ Br_2(l) + I_2(s) = 2\ IBr_3(g)$
17. $2\ KClO_3 = 2\ KCl + 3\ O_2$
18. $3\ I_2O_5 + 5\ H_2S = 3\ I_2 + 5\ SO_2 + 5\ H_2O$
19. $3\ Mg + 2\ H_3PO_4 = Mg_3(PO_4)_2 + 3\ H_2$
20. $2\ HI + Sr(OH)_2 = SrI_2 + 2\ H_2O$

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