



BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 57

- $P_4O_{10} + \text{___} H_2O = \text{___} H_3PO_4$
- $\text{___} FeCl_3 + H_2S = \text{___} FeCl_2 + S + 2 HCl$
- $C_3H_8 + \text{___} O_2 = 3 CO_2 + \text{___} H_2O$
- $Al_2O_3 + \text{___} NaOH = \text{___} NaAlO_2 + H_2O$
- $Ca_3P_2 + \text{___} H_2O = \text{___} Ca(OH)_2 + 2 PH_3$
- $\text{___} HCl + 3 As_2O_3 + 4 NaNO_3 + 7 H_2O = \text{___} NO + 6 H_3AsO_4 + 4 NaCl$
- $2 KMnO_4 + \text{___} H_2S + 6 HCl = 5 S + \text{___} MnCl_2 + 2 KCl + 8 H_2O$
- $\text{___} Na + 2 H_2O = \text{___} NaOH + H_2$
- $\text{___} C_4(s)H_{10}(s) + 13 O_2(s) = \text{___} CO_2(s) + 10 H_2(s)O$
- $PCl_5 + \text{___} H_2O = H_3PO_4 + \text{___} HCl$
- $\text{___} Cr_2 + 3 O_2 = \text{___} Cr_2O_3$
- $3 Mg(NO_3)_2 + \text{___} K_3PO_4 = Mg_3(PO_4)_2 + \text{___} KNO_3$
- $\text{___} Fe_2O_3 + 3 C = \text{___} Fe + 3 CO_2$
- $C_5H_{12} + \text{___} O_2 = 5 CO_2 + \text{___} H_2O$
- $\text{___} SO_2 + O_2 = \text{___} SO_3$
- $Sb_2O_5 + \text{___} Hg + 4 HNO_3 = Hg_2Sb_2O_7 + \text{___} H_2O + 4 NO_2$
- $\text{___} NaN_3(s) = 2 Na(s) + \text{___} N_2(g)$
- $3 Mg + \text{___} H_3PO_4 = Mg_3(PO_4)_2 + \text{___} H_2$
- $\text{___} Cr(s) + 3 O_2(g) = \text{___} Cr_2O_3(s)$
- $\text{___} Cu + O_2 = \text{___} CuO$



ANSWERS

1. $P_4O_{10} + 6 H_2O = 4 H_3PO_4$
2. $2 FeCl_3 + H_2S = 2 FeCl_2 + S + 2 HCl$
3. $C_3H_8 + 5 O_2 = 3 CO_2 + 4 H_2O$
4. $Al_2O_3 + 2 NaOH = 2 NaAlO_2 + H_2O$
5. $Ca_3P_2 + 6 H_2O = 3 Ca(OH)_2 + 2 PH_3$
6. $4 HCl + 3 As_2O_3 + 4 NaNO_3 + 7 H_2O = 4 NO + 6 H_3AsO_4 + 4 NaCl$
7. $2 KMnO_4 + 5 H_2S + 6 HCl = 5 S + 2 MnCl_2 + 2 KCl + 8 H_2O$
8. $2 Na + 2 H_2O = 2 NaOH + H_2$
9. $2 C_4(s)H_{10}(s) + 13 O_2(s) = 8 CO_2(s) + 10 H_2(s)O$
10. $PCl_5 + 4 H_2O = H_3PO_4 + 5 HCl$
11. $2 Cr_2 + 3 O_2 = 2 Cr_2O_3$
12. $3 Mg(NO_3)_2 + 2 K_3PO_4 = Mg_3(PO_4)_2 + 6 KNO_3$
13. $2 Fe_2O_3 + 3 C = 4 Fe + 3 CO_2$
14. $C_5H_{12} + 8 O_2 = 5 CO_2 + 6 H_2O$
15. $2 SO_2 + O_2 = 2 SO_3$
16. $Sb_2O_5 + 2 Hg + 4 HNO_3 = Hg_2Sb_2O_7 + 2 H_2O + 4 NO_2$
17. $2 NaN_3(s) = 2 Na(s) + 3 N_2(g)$
18. $3 Mg + 2 H_3PO_4 = Mg_3(PO_4)_2 + 3 H_2$
19. $4 Cr(s) + 3 O_2(g) = 2 Cr_2O_3(s)$
20. $2 Cu + O_2 = 2 CuO$



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