



BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 100

1. $\text{___ AgNO}_3 + \text{Cu} = \text{Cu(NO}_3)_2 + \text{___ Ag}$
2. $2 \text{AgBr} + \text{___ Cl}_2 = \text{___ AgCl}_2 + \text{Br}_2$
3. $\text{___ HgO(s)} = \text{___ Hg(l)} + \text{O}_2\text{(g)}$
4. $\text{___ VO} + 3 \text{Fe}_2\text{O}_3 = \text{V}_2\text{O}_5 + \text{___ FeO}$
5. $\text{ZrCl}_4 + \text{___ H}_2\text{O} = \text{ZrO}_2 + \text{___ HCl}$
6. $\text{___ Fe}_2\text{S}_3 + 9 \text{O}_2 = \text{___ SO}_2 + 2 \text{Fe}_2\text{O}_3$
7. $\text{H}_2\text{S} + \text{___ LiOH} = \text{Li}_2\text{S} + \text{___ H}_2\text{O}$
8. $2 \text{Na} + \text{___ H}_2\text{O} = \text{___ NaOH} + \text{H}_2$
9. $\text{___ HNO}_3 + 5 \text{C}_5\text{H}_6\text{O}_2 = 25 \text{CO}_2 + 26 \text{H}_2\text{O} + \text{___ N}_2$
10. $\text{___ Sr} + \text{P}_4 = \text{___ Sr}_3\text{P}_2$
11. $\text{___ Cu}_2\text{O(s)} + \text{C(s)} = \text{___ Cu(s)} + \text{CO}_2\text{(g)}$
12. $2 \text{P(s)} + \text{___ Cl}_2\text{(g)} = \text{___ PCl}_5\text{(g)}$
13. $\text{___ NO}_2 + \text{F}_2 = \text{___ NO}_2\text{F}$
14. $\text{P}_4 + \text{___ NaOH} + 2 \text{H}_2\text{O} = \text{___ PH}_3 + 2 \text{Na}_2\text{HPO}_3$
15. $\text{___ Fe(s)} + 6 \text{HCl(zr)} = \text{___ FeCl}_3\text{(aq)} + 3 \text{H}_2\text{(g)}$
16. $\text{___ H}_2\text{O} + 6 \text{CO}_2 = \text{C}_6\text{H}_{12}\text{O}_6 + \text{___ O}_2$
17. $\text{Al}_2\text{(SO}_4)_3 + \text{___ Ca(OH)}_2 = \text{___ Al(OH)}_3 + 3 \text{CaSO}_4$
18. $2 \text{Sn} + \text{___ NaOH} + 10 \text{H}_2\text{O} = \text{___ Na(Sn(OH)}_6) + 5 \text{H}_2$
19. $\text{___ CA} + 2 \text{H}_2\text{O} = \text{___ CAO}_2 + \text{H}_2$
20. $\text{PCl}_5 + \text{___ H}_2\text{O} = \text{___ HCl} + \text{H}_3\text{PO}_4$



ANSWERS

1. $2 \text{AgNO}_3 + \text{Cu} = \text{Cu}(\text{NO}_3)_2 + 2 \text{Ag}$
2. $2 \text{AgBr} + 2 \text{Cl}_2 = 2 \text{AgCl}_2 + \text{Br}_2$
3. $2 \text{HgO}(\text{s}) = 2 \text{Hg}(\text{l}) + \text{O}_2(\text{g})$
4. $2 \text{VO} + 3 \text{Fe}_2\text{O}_3 = \text{V}_2\text{O}_5 + 6 \text{FeO}$
5. $\text{ZrCl}_4 + 2 \text{H}_2\text{O} = \text{ZrO}_2 + 4 \text{HCl}$
6. $2 \text{Fe}_2\text{S}_3 + 9 \text{O}_2 = 6 \text{SO}_2 + 2 \text{Fe}_2\text{O}_3$
7. $\text{H}_2\text{S} + 2 \text{LiOH} = \text{Li}_2\text{S} + 2 \text{H}_2\text{O}$
8. $2 \text{Na} + 2 \text{H}_2\text{O} = 2 \text{NaOH} + \text{H}_2$
9. $22 \text{HNO}_3 + 5 \text{C}_5\text{H}_6\text{O}_2 = 25 \text{CO}_2 + 26 \text{H}_2\text{O} + 11 \text{N}_2$
10. $6 \text{Sr} + \text{P}_4 = 2 \text{Sr}_3\text{P}_2$
11. $2 \text{Cu}_2\text{O}(\text{s}) + \text{C}(\text{s}) = 4 \text{Cu}(\text{s}) + \text{CO}_2(\text{g})$
12. $2 \text{P}(\text{s}) + 5 \text{Cl}_2(\text{g}) = 2 \text{PCl}_5(\text{g})$
13. $2 \text{NO}_2 + \text{F}_2 = 2 \text{NO}_2\text{F}$
14. $\text{P}_4 + 4 \text{NaOH} + 2 \text{H}_2\text{O} = 2 \text{PH}_3 + 2 \text{Na}_2\text{HPO}_3$
15. $2 \text{Fe}(\text{s}) + 6 \text{HCl}(\text{aq}) = 2 \text{FeCl}_3(\text{aq}) + 3 \text{H}_2(\text{g})$
16. $6 \text{H}_2\text{O} + 6 \text{CO}_2 = \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{O}_2$
17. $\text{Al}_2(\text{SO}_4)_3 + 3 \text{Ca}(\text{OH})_2 = 2 \text{Al}(\text{OH})_3 + 3 \text{CaSO}_4$
18. $2 \text{Sn} + 2 \text{NaOH} + 10 \text{H}_2\text{O} = 2 \text{Na}(\text{Sn}(\text{OH})_6) + 5 \text{H}_2$
19. $2 \text{CA} + 2 \text{H}_2\text{O} = 2 \text{CAOH} + \text{H}_2$
20. $\text{PCl}_5 + 4 \text{H}_2\text{O} = 5 \text{HCl} + \text{H}_3\text{PO}_4$



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