



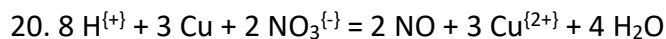
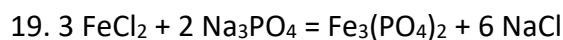
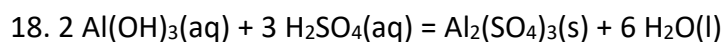
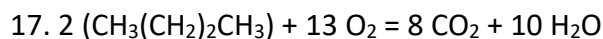
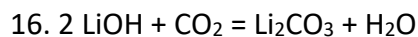
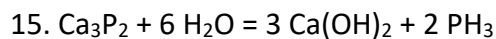
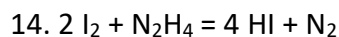
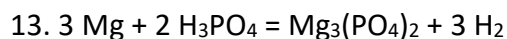
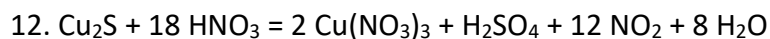
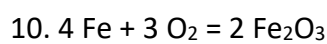
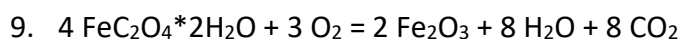
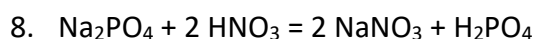
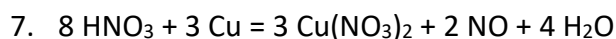
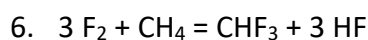
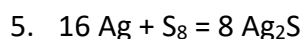
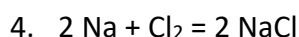
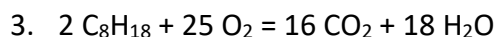
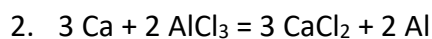
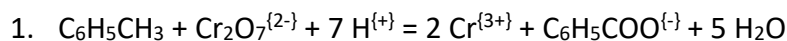
## BALANCE THE GIVEN CHEMICAL EQUATIONS

### Worksheet - 79

1.  $\text{C}_6\text{H}_5\text{CH}_3 + \text{Cr}_2\text{O}_7^{2-} + \text{H}^{+} = \text{Cr}^{3+} + \text{C}_6\text{H}_5\text{COO}^{-} + 5 \text{H}_2\text{O}$
2.  $\text{Ca} + 2 \text{AlCl}_3 = \text{CaCl}_2 + 2 \text{Al}$
3.  $2 \text{C}_8\text{H}_{18} + \text{O}_2 = 16 \text{CO}_2 + \text{H}_2\text{O}$
4.  $\text{Na} + \text{Cl}_2 = \text{NaCl}$
5.  $\text{Ag} + \text{S}_8 = \text{Ag}_2\text{S}$
6.  $\text{F}_2 + \text{CH}_4 = \text{CHF}_3 + \text{HF}$
7.  $8 \text{HNO}_3 + \text{Cu} = 3 \text{Cu}(\text{NO}_3)_2 + \text{NO} + 4 \text{H}_2\text{O}$
8.  $\text{Na}_2\text{PO}_4 + \text{HNO}_3 = \text{NaNO}_3 + \text{H}_2\text{PO}_4$
9.  $\text{FeC}_2\text{O}_4 \cdot 2\text{H}_2\text{O} + 3 \text{O}_2 = \text{Fe}_2\text{O}_3 + 8 \text{H}_2\text{O} + 8 \text{CO}_2$
10.  $4 \text{Fe} + \text{O}_2 = \text{Fe}_2\text{O}_3$
11.  $\text{H}_2\text{S} + \text{LiOH} = \text{Li}_2\text{S} + \text{H}_2\text{O}$
12.  $\text{Cu}_2\text{S} + \text{HNO}_3 = 2 \text{Cu}(\text{NO}_3)_3 + \text{H}_2\text{SO}_4 + \text{NO}_2 + 8 \text{H}_2\text{O}$
13.  $3 \text{Mg} + \text{H}_3\text{PO}_4 = \text{Mg}_3(\text{PO}_4)_2 + \text{H}_2$
14.  $\text{I}_2 + \text{N}_2\text{H}_4 = \text{HI} + \text{N}_2$
15.  $\text{Ca}_3\text{P}_2 + \text{H}_2\text{O} = 3 \text{Ca}(\text{OH})_2 + \text{PH}_3$
16.  $\text{LiOH} + \text{CO}_2 = \text{Li}_2\text{CO}_3 + \text{H}_2\text{O}$
17.  $2 (\text{CH}_3(\text{CH}_2)_2\text{CH}_3) + \text{O}_2 = 8 \text{CO}_2 + \text{H}_2\text{O}$
18.  $2 \text{Al}(\text{OH})_3(\text{aq}) + \text{H}_2\text{SO}_4(\text{aq}) = \text{Al}_2(\text{SO}_4)_3(\text{s}) + \text{H}_2\text{O}(\text{l})$
19.  $\text{FeCl}_2 + 2 \text{Na}_3\text{PO}_4 = \text{Fe}_3(\text{PO}_4)_2 + \text{NaCl}$
20.  $8 \text{H}^{+} + \text{Cu} + 2 \text{NO}_3^{-} = 2 \text{NO} + \text{Cu}^{2+} + 4 \text{H}_2\text{O}$



# ANSWERS





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### **Further Questions?**

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