

Class Practice

Predicting Products

- 1. Write your answer on the whiteboard – BIG!**
- 2. Write the correct answer on your worksheet paper after I show the answer!**



#1

What charge will Nitrogen have when it forms an ion?

What will its name be?

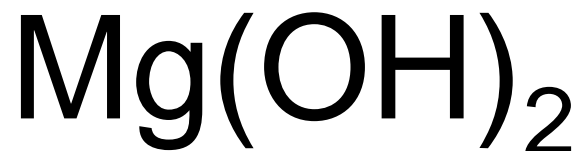
-3, Nitride

#2

What is the formula for
Calcium Hydroxide?



#3



Type of bond and name?

Ionic,

Magnesium hydroxide

#4



Type of bond and name?

Ionic, barium nitrate

#5

What is the formula for
lithium sulfate?



#6

What charge will sulfur have when it forms an ion? What will its name be?

sulfide, 2-

#7



Name and type of bond?

Ionic, Cobalt (III) Fluoride

#8

What is the formula for
Aluminum sulfate?



#9

What is the formula for
Iron (III) Chloride?



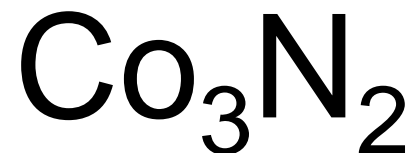
#10



Type of bond and name?

Ionic, Iron (III) Oxide

#11

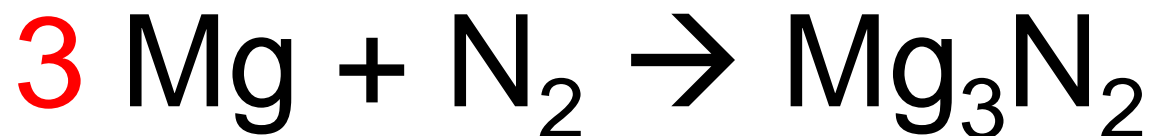


Type of bond and name?

Ionic, Cobalt (II) nitride

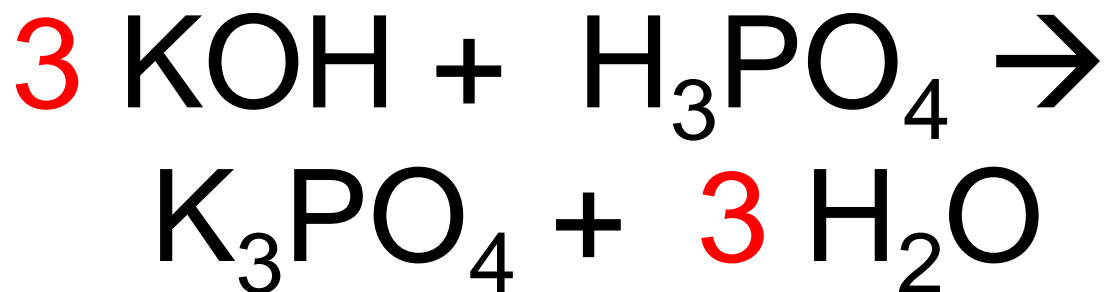
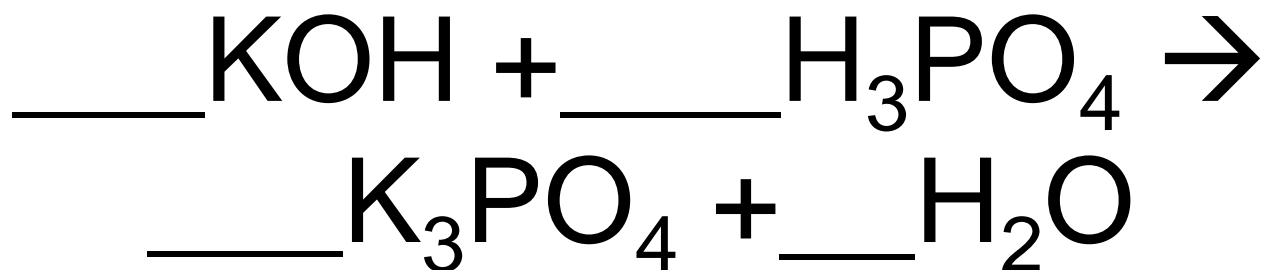
#12

Balance the equation



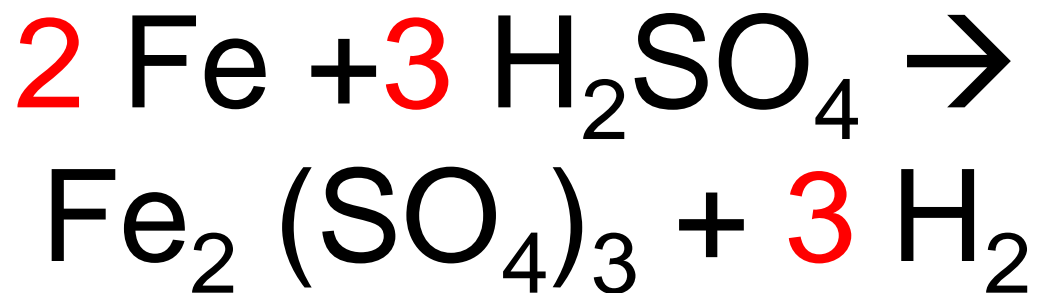
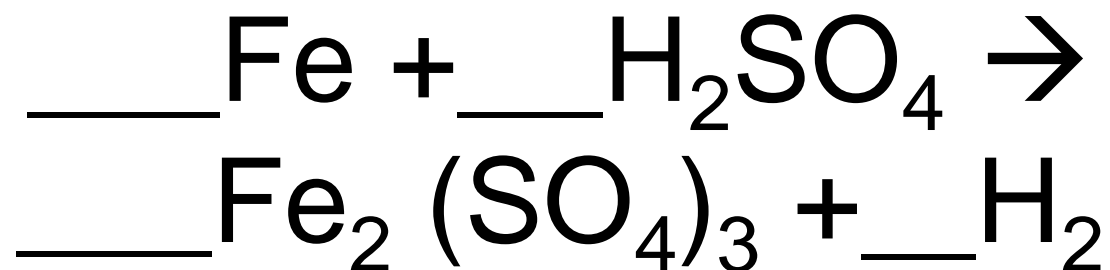
#13

Balance the equation



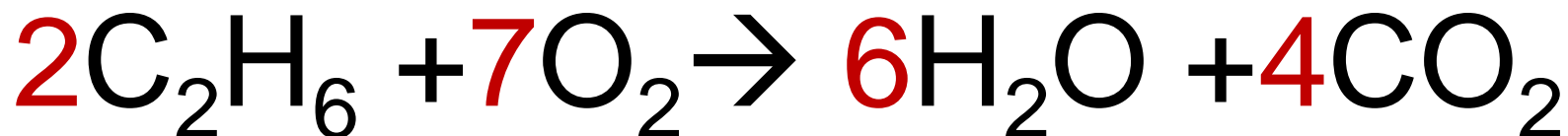
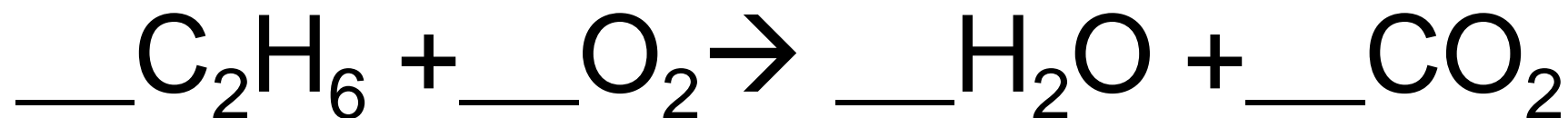
#14

Balance the equation



#15

Balance the equation



#16

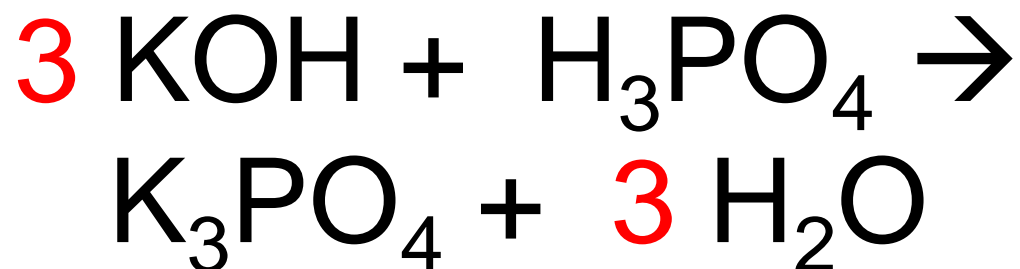
Identify type of reaction



Synthesis

#17

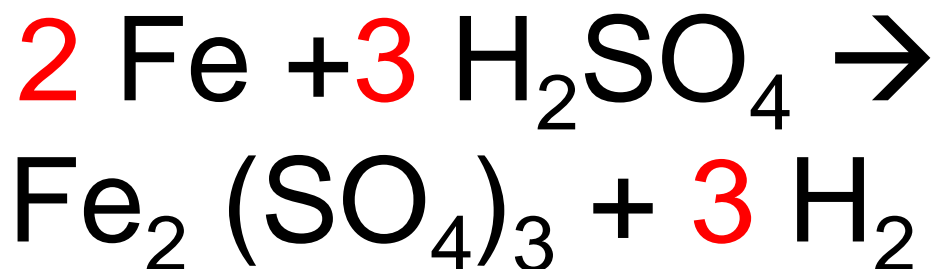
Identify type of reaction



Tricky! Double replacement.
Don't forget that H_2O can be
written $\text{H}(\text{OH})$

#18

Identify type of reaction



Single Replacement

Don't forget – diatomic elements
still count as elements! H_2 is an
element!

#19

Write and Balance
Sodium plus Oxygen yield
Sodium Oxide



#20

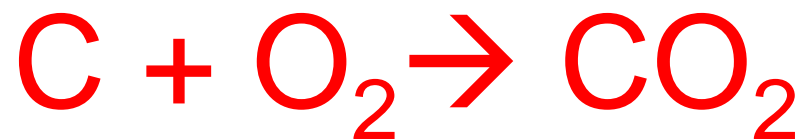
Write and Balance

Potassium oxide is added to water
producing Potassium Hydroxide



#21

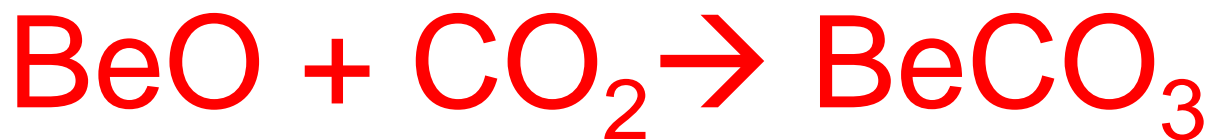
Write and Balance
Solid Carbon (graphite) when
added to oxygen makes
carbon dioxide



#22

Write and Balance

Beryllium oxide is added to
carbon dioxide producing
Beryllium Carbonate



#23

Write and Balance

Aluminum oxide added to water
makes aluminum hydroxide



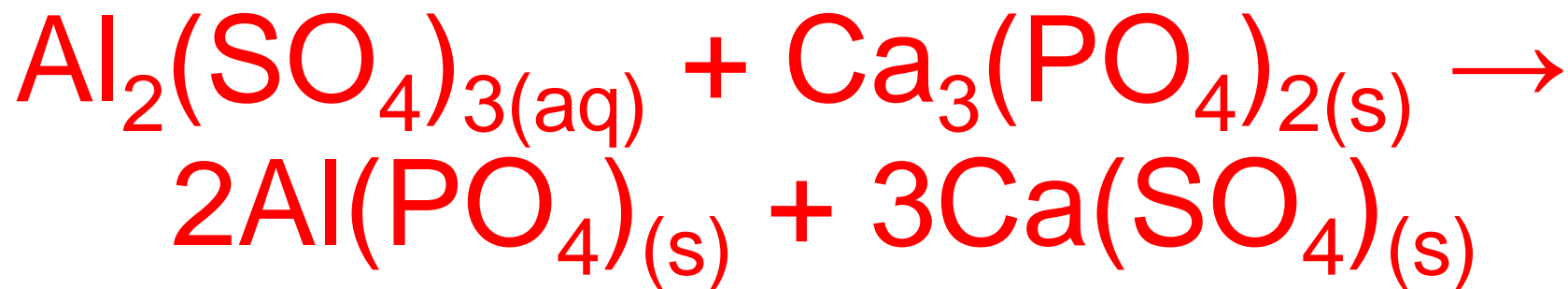
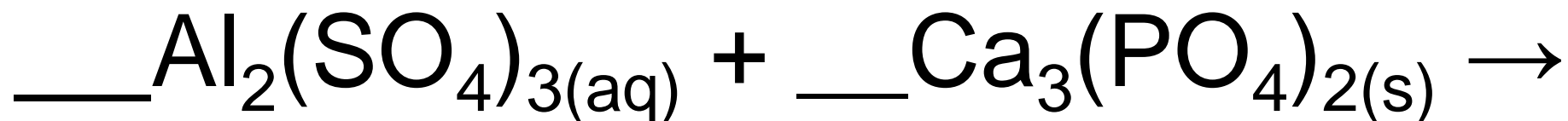
#24

Write and Balance



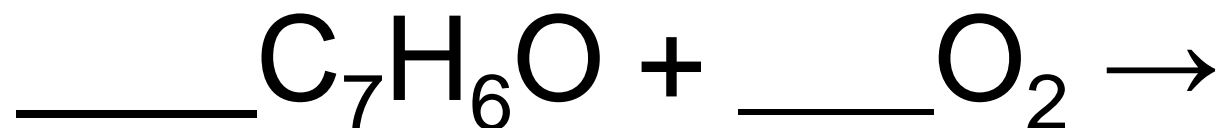
#25

Write and Balance



#26

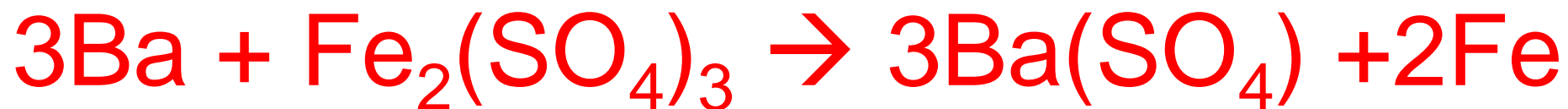
Write and Balance



#27

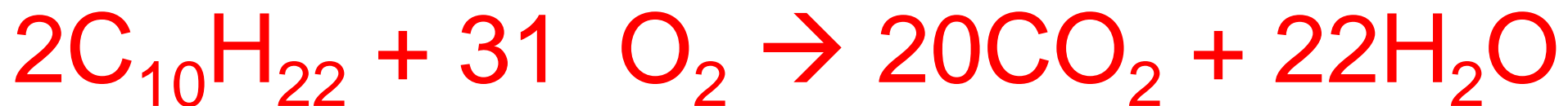
Write and Balance

Barium metal reacts with Iron
(III) sulfate to produce...



#28

Write and Balance
The combustion of decane.
(C₁₀H₂₂)...



#29

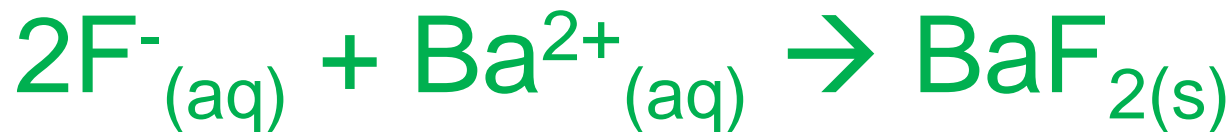
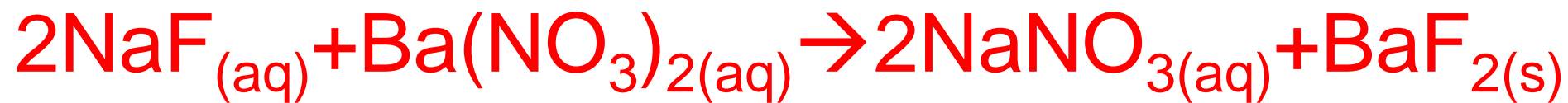
Write and Balance
A solution of Potassium
Carbonate plus a solution of
barium chloride produces...



#30

Determine if a precipitate forms when the following solutions are mixed. Write the overall equation, the total ionic equation, and the net ionic equation.

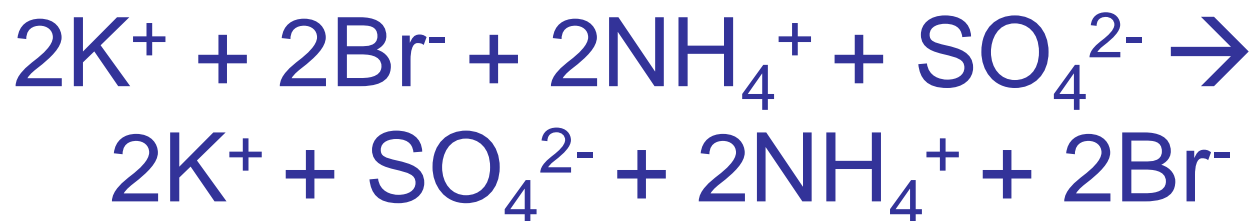
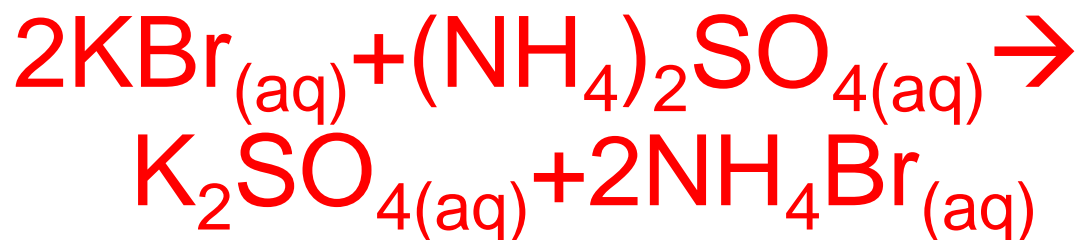
A solution of sodium fluoride is mixed with a solution of barium nitrate.



#31

Determine if a precipitate forms when the following solutions are mixed. Write the overall equation, the total ionic equation, and the net ionic equation.

A solution of potassium bromide is mixed with a solution of ammonium sulfate.



NO REACTION!!!!