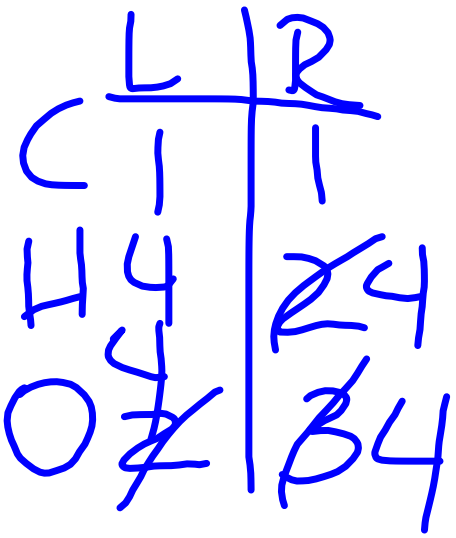
May 14, 2019

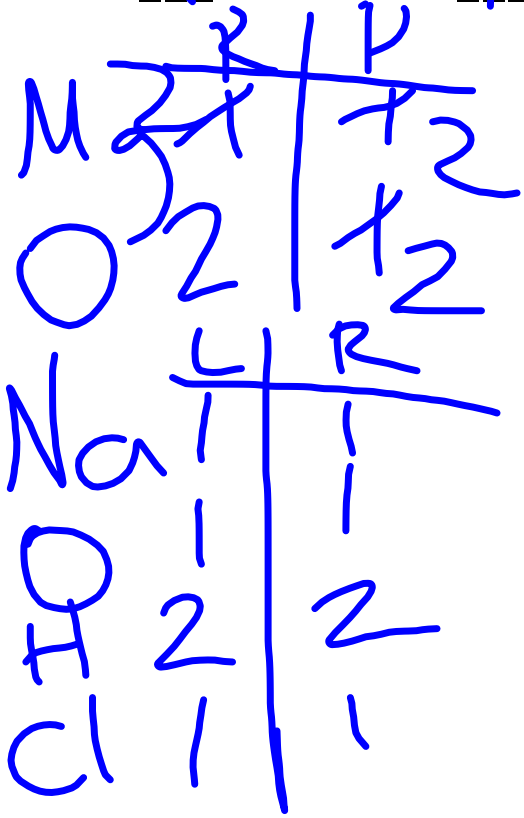
answers Balancing WS 6.5C Part A/B
continue with balancing equations practice

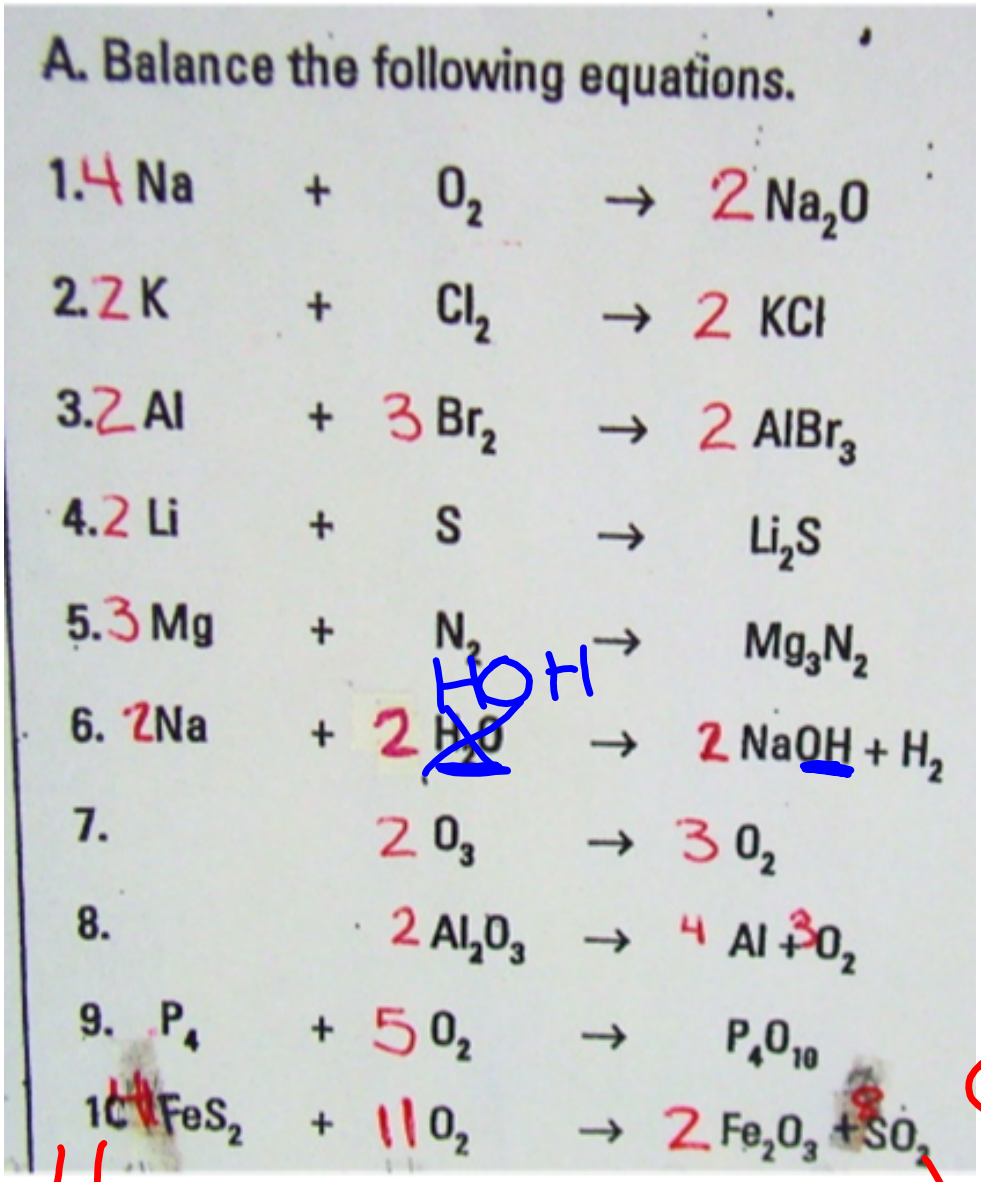
Quiz on Balancing Equations Friday!!!

Warm-Up

1. 2 Mg + 1 O_2 ⇒ 2 MgO
2. 1 CH_4 + 2 O_2 ⇒ 1 CO_2 + 2 H_2O
3. 1 NaOH + 1 HCl ⇒ 1 NaCl + 1 H_2O

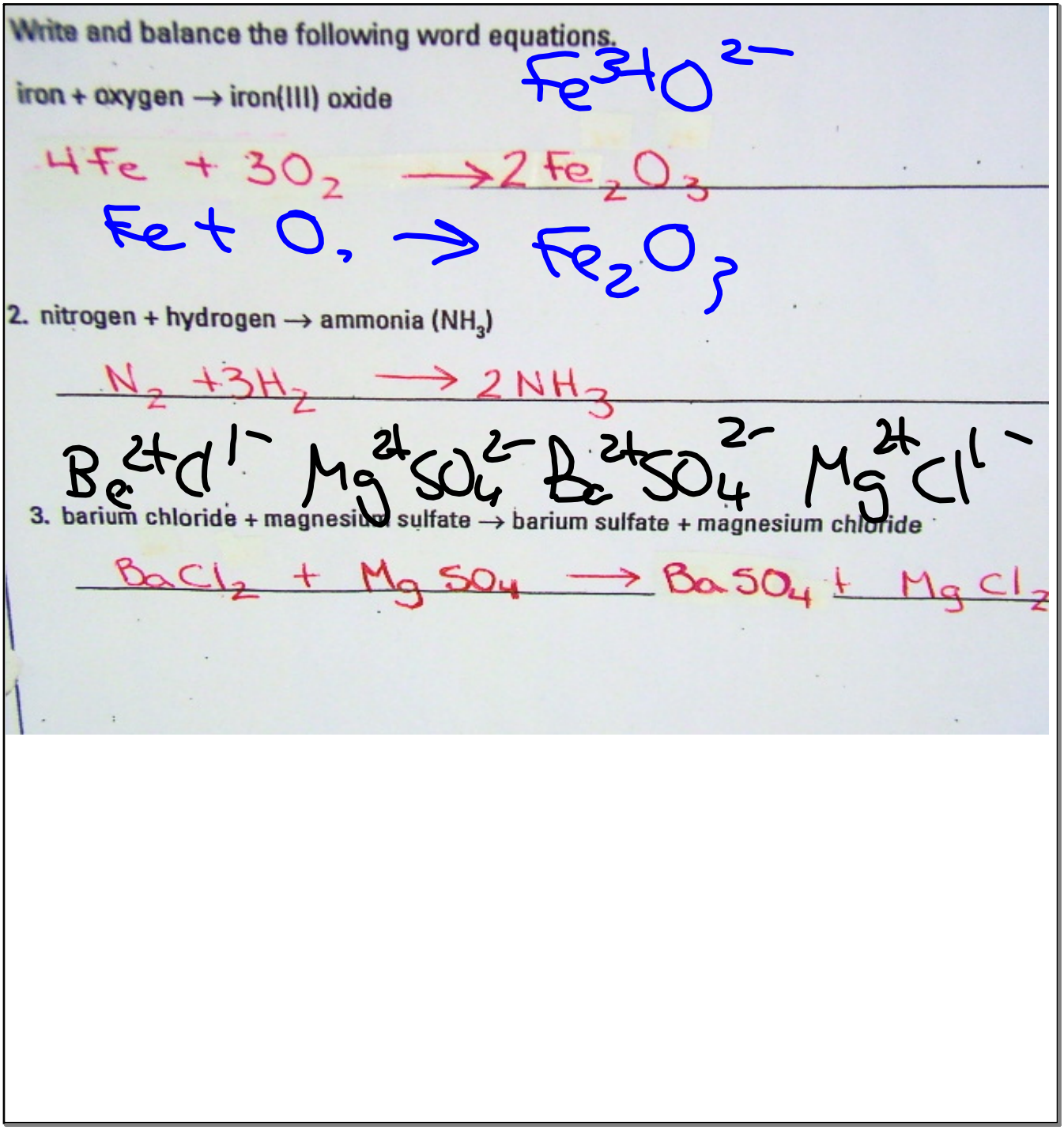






A. Balance the following equations.

1. 4 Na + O_2 → 2 Na_2O
2. 2 K + Cl_2 → 2 KCl
3. 2 Al + 3 Br_2 → 2 $AlBr_3$
4. 2 Li + S → Li_2S
5. 3 Mg + N_2 → Mg_3N_2
6. 2 Na + 2 HOH → 2 NaOH + H_2
7. 2 O_3 → 3 O_2
8. 2 Al_2O_3 → 4 Al + 3 O_2
9. P_4 + 5 O_2 → P_4O_{10}
10. 4 FeS_2 + 11 O_2 → 2 Fe_2O_3 + 8 SO_2


Write and balance the following word equations.
iron + oxygen → iron(III) oxide
$Fe^{3+}O^{2-}$
$4Fe + 3O_2 \rightarrow 2Fe_2O_3$
$Fe + O_2 \Rightarrow Fe_2O_3$
2. nitrogen + hydrogen → ammonia (NH_3)
$N_2 + 3H_2 \rightarrow 2NH_3$
$Be^{2+}Cl^{1-}$ $Mg^{2+}SO_4^{2-}$ $Ba^{2+}SO_4^{2-}$ $Mg^{2+}Cl^{1-}$
3. barium chloride + magnesium sulfate → barium sulfate + magnesium chloride
$BaCl_2 + MgSO_4 \rightarrow BaSO_4 + MgCl_2$

More guided practice

1) $Pb(NO_3)_2 + NaCl \Rightarrow NaNO_3 + PbCl_2$

2) $Fe(NO_3)_3 + (NH_4)_2CO_3 \Rightarrow Fe_2(CO_3)_3 + NH_4NO_3$

3) $MgH_2 + H_2O \Rightarrow H_2 + Mg(OH)_2$

Extra Practice Worksheet Balancing Equations

*Remember you can only add co-efficient's

* Balance the easy atoms first (those that only appear once on each side of the equation)

* Keep poly-atomics that stay together together.

i.e. $Mg_3(PO_4)_2 + NaCl \longrightarrow MgCl_2 + Na_2(PO_4)$

* Keep oxygen till the end

OH on one side and H_2O re-write H_2O as HOH