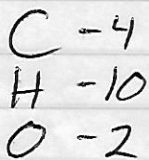
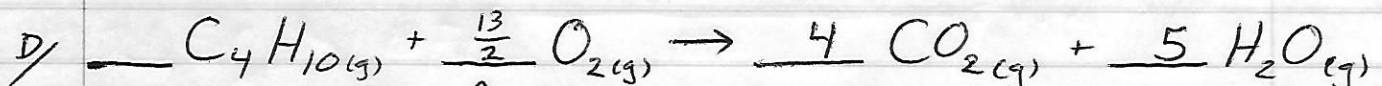
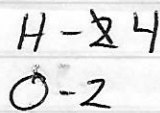
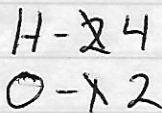
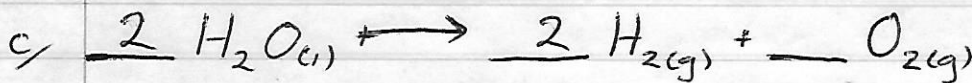
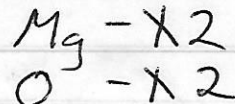
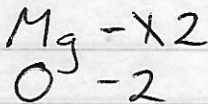
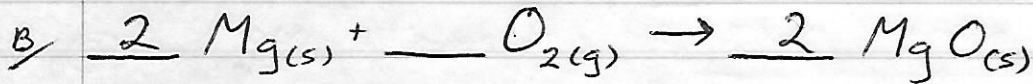
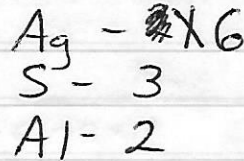
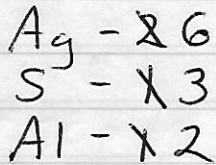
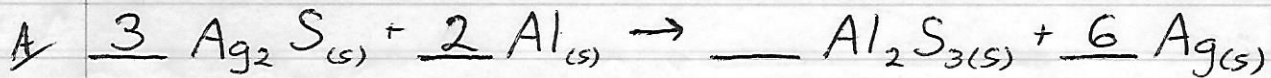


* the subscripts do not affect balancing

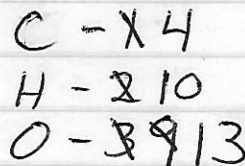
(g) - gas
(s) - solid
(l) - liquid
(aq) - in water solution

Balancing Chemical Equations

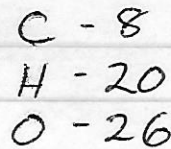
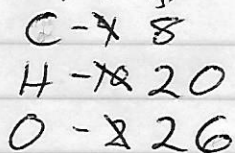
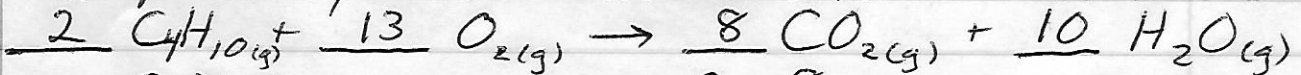
Sample Problems

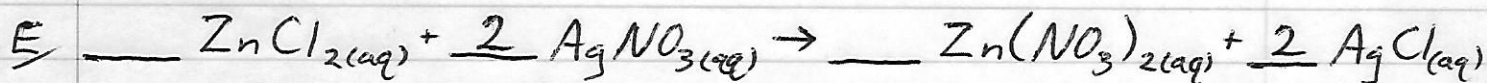


↑
only way
to get 13



There is nothing that will work to balance the oxygen because 13 is an odd number and anything multiplied by 2 is even. The solution → double everything





Zn - 1

Cl - 2

Ag - ~~x~~2

\rightarrow NO₃ - ~~x~~2

Zn - 1

Cl - ~~x~~2

Ag - ~~x~~2

NO₃ - 2

can treat as a unit
since that is the only form
of N or O on both sides of
the equation

- If you choose to count N and O separately,
that is ok too.