PURPOSE: USE AVOGADRO'S

PRINCIPLE TO SOLVE+FIND

FORMULAS OF COMPOUNDS

WARMUP COPY THESE IN WARMUPOX

PH3 NO NO2

NH3 CO2 H2O2

HH

HH

OCO DOGH HOH

PH3 NO

FORMULAS USE A SUBSCRIPT
TO SHOW TWO OR MORE ATOMS.

TO SHOW TWO OR MORE ATOMS.

TO THERE IS ONLY ONE

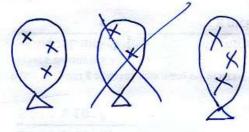
ATOM, USE NO SUBGRIPT

HOW MANY MOLECULES & ATOMS?

IS MATTER BEING CONSERVED HERE

OFF + CO -> OFF IMPOSSIBLE

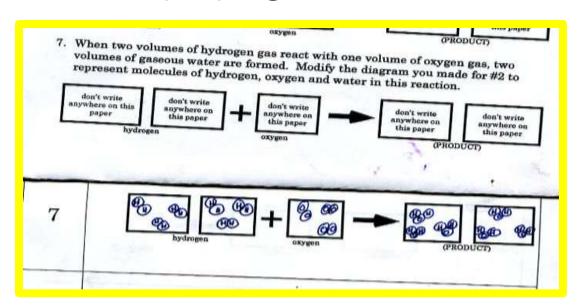
EACH BALLOON BOX HAS THE SAME NUMBER OF MOLECULES.



Today in class we attempted to follow the two rules shown in the orange box below. It was difficult!

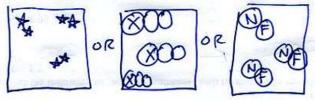
All gas follows these rules:
Avogadro's Principle: Equal sized boxes have the same number of gas molecules.
The Law of Conservation of Mass: Any atoms that exist before the arrow must be the same as the number of atoms after the arrow.
Assume all boxes are the same size.

Here is a correct solution to the hardest problem we did during classwork today. Very few people got this solution correct:



SUGGESTIONS FOR SOLVING TONIGHT'S HOMEWORK.

DUSE THESE DRAWING STYLES



- DUSE ANY NUMBER OF MOLECULES BUT EACH BOX SHOULD HAVE THE SAME NUMBER OF MOLECULES
- 3 DON'T MAKE ATOMS APPEAR OR
 DISAPPEAR; IF THERE ARE FIVE &
 BEFORE THE ARROW.

 SHOULD BE FIVE & AFTER THE ARROW.
- (F) BIG HINT: MANY PROBLEMS ARE
 EASIER TO SOLVE IF YOU START WITH
 DOUBLE-ATOMS: OO OR BOD OR BOD

RESEARCH SHOWS STUDENTS.
REMEMBER LONGER IF
TEACHERS CREATE PROBLEMS
THAT ARE NOT SOLVED
RIGHT THE FIRST TIME