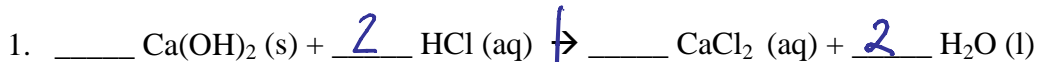


Chemistry CP
Equation Writing/Balancing Quiz

Name: Key

Balance the following equations by placing the smallest whole number coefficient in front of each substance. You do not have to write 1's but you may. 1 point per blank line.



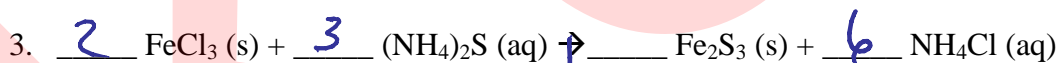
Ca - 1
O - 2
H - 3 - 4
Cl - 1 - 2

Ca - 1
O - 1 - 2
H - 2 - 4
Cl - 2



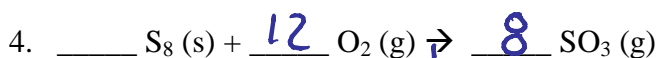
Fe - 1 - 2
Cl - 2 - 6

Fe - 1 - 2
Cl - 3 - 6



Fe - 1 - 2
Cl - 3 - 6
N - 2 - 6
H - 8 - 24
S - 1 - 3

Fe - 2
Cl - 1 - 6
N - 1 - 6
H - 4 - 24
S - 3

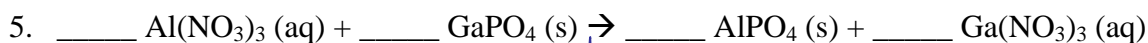


S - 8
O - 2 - 24

S - 1 - 8
O - 3 - 24

Chemistry CP
Equation Writing/Balancing Quiz

Name: Key



Al - 1
N - 3
O - 13
Ga - 1
P - 1

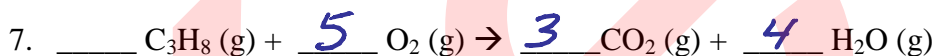
Al - 1
N - 3
O - 13
Ga - 1
P - 1

Balanced
as written !!
😊



P - 1 - 4
O - 2 - 10

P - 2 - 4
O - 5 - 10



C - 3

H - 8

O - 2 - 10

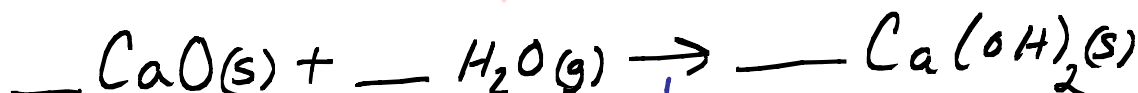
C - 1 - 3

H - 2 - 8

O - 3 - 10

Please write the **BALANCED** chemical equation for the following chemical reactions. You **MUST** include states of matter for all chemicals.

1. (6 pts) Calcium **oxide solid** will react with the moisture in the air (water vapor) to produce calcium **hydroxide solid**.



Ca - 1

O - 2

H - 2

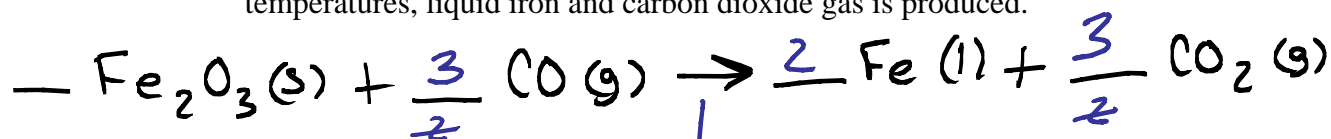
Ca - 1

O - 2

H - 2

Balanced as
written !!
😊

2. (8 pts) If solid iron (III) oxide is reacted with carbon monoxide gas under high temperatures, liquid iron and carbon dioxide gas is produced.



Fe - 2

O - 4 - 5 - 6

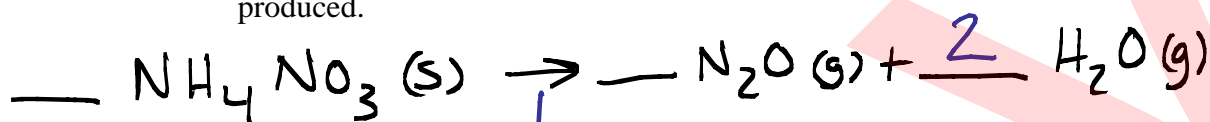
C - 1 - 2 - 3

Fe - 1 - 2

O - 2 - 4 - 6

C - 1 - 2 - 3

3. (6 pts) If solid ammonium nitrate is heated, dinitrogen monoxide gas and water vapor are produced.



N - 2

H - 4

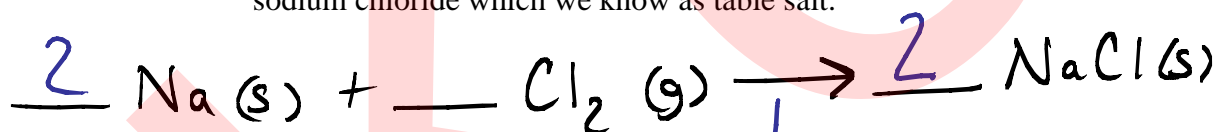
O - 3

N - 2

H - 2 - 4

O - 2 - 3

4. (6 pts) The explosive metal sodium will react with the toxic gas chlorine to produce solid sodium chloride which we know as table salt.



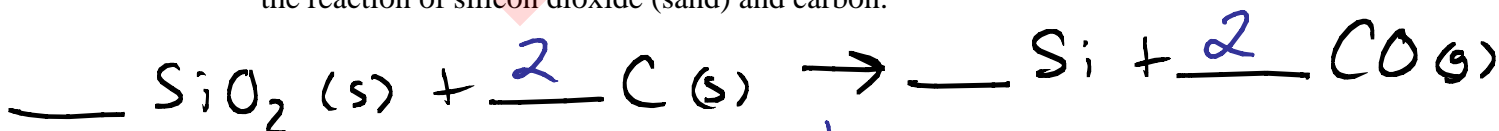
Na - 1 - 2

Cl - 2

Na - 1 - 2

Cl - 1 - 2

5. (8pts) Solid silicon can be produced along with the dangerous gas carbon monoxide, by the reaction of silicon dioxide (sand) and carbon.



Si - 1

O - 2

C - 1 - 2

Si - 1

O - 1 - 2

C - 1 - 2