

Counting Atoms Worksheet

Name: _____ Grade: _____

Fill in the blanks below carefully

Subscript increases the number of atoms of one element in a compound. If the subscript is outside the parentheses, multiply all the elements inside the brackets. Count the number of atoms in each molecule.

1) NH_3

N = _____

H = _____

2) $\text{Ca}(\text{NO}_3)_2$

Ca = _____

N = _____

O = _____

Coefficient shows the amount of entire compounds in a reaction. Count the number of atoms in each formula.

3) KCl

K = _____

Cl = _____

4) 2KCl

K = _____

Cl = _____

5) 3KCl

K = _____

Cl = _____

Counting Atoms Worksheet

Answer Key

1) NH₃

N = 1

H = 3

2) Ca(NO₃)₂

Ca = 1

N = 2

O = 6

Coefficient shows the amount of entire compounds in a reaction. Count the number of atoms in each formula.

3) KCl

K = 1

Cl = 1

4) 2KCl

K = 2

Cl = 2

5) 3KCl

K = 3

Cl = 3