

# Counting Atoms Worksheet

Name: \_\_\_\_\_ Grade: \_\_\_\_\_

**Instructions:** For each chemical formula, list the elements and count how many atoms of each are present. Then calculate the total number of atoms.

1: KCl

Element	Number of Atoms
K	
Cl	
Total:	

2: Mg<sub>3</sub>N<sub>2</sub>

Element	Number of Atoms
Mg	
N	
Total:	

3: CO<sub>2</sub>

Element	Number of Atoms
C	
O	
Total:	

4: H<sub>2</sub>O<sub>2</sub>

Element	Number of Atoms
H	
O	
Total:	

3: CuSO<sub>4</sub>

Element	Number of Atoms
Cu	
S	
O	
Total:	

4: Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>

Element	Number of Atoms
Fe	
S	
O	
Total:	

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## Answer Key

1: KCl

Element	Number of Atoms
K	1
Cl	1
Total:	2

2: Mg<sub>3</sub>N<sub>2</sub>

Element	Number of Atoms
Mg	3
N	2
Total:	5

3: CO<sub>2</sub>

Element	Number of Atoms
C	1
O	2
Total:	3

4: H<sub>2</sub>O<sub>2</sub>

Element	Number of Atoms
H	2
O	2
Total:	4

3: CuSO<sub>4</sub>

Element	Number of Atoms
Cu	1
S	1
O	4
Total:	6

4: Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>

Element	Number of Atoms
Fe	2
S	3 (1×3)
O	12 (4×3)
Total:	17