

Counting Atoms Worksheet

Name: _____ Grade: _____

Instructions: Read each chemical formula below and answer the following questions:

1. Water → H₂O

- How many elements? _____
- How many atoms? _____
- How many molecules? _____

2. Carbon Dioxide → CO₂

- How many elements? _____
- How many atoms? _____
- How many molecules? _____

3. Salt → 2NaCl

- How many elements? _____
- How many atoms? _____
- How many molecules? _____

4. Methane → CH₄

- How many elements? _____
- How many atoms? _____
- How many molecules? _____

5. Calcium Hydroxide → Ca(OH)₂

- How many elements? _____
- How many atoms? _____
- How many molecules? _____

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Answer Key

1. Water → H₂O

- Elements: 2 (Hydrogen, Oxygen)
- Atoms: 3 (2 H + 1 O)
- Molecules: 1

2. Carbon Dioxide → CO₂

- Elements: 2 (Carbon, Oxygen)
- Atoms: 3 (1 C + 2 O)
- Molecules: 1

3. Salt → 2NaCl

- Elements: 2 (Sodium, Chlorine)
- Atoms: 4 (2 Na + 2 Cl)
- Molecules: 2

4. Methane → CH₄

- Elements: 2 (Carbon, Hydrogen)
- Atoms: 5 (1 C + 4 H)
- Molecules: 1

5. Calcium Hydroxide → Ca(OH)₂

- Elements: 3 (Calcium, Oxygen, Hydrogen)
- Atoms: 5 (1 Ca + 2 O + 2 H)
- Molecules: 1