

Name

Date

Counting Atoms Worksheet

Choose the correct answer from the options provided below each question.

How many oxygen atoms are there in a molecule of water (H₂O)?

1

2

3

What is the total number of atoms in a molecule of carbon dioxide (CO₂)?

2

3

4

In ammonia (NH₃), how many hydrogen atoms are there?

2

3

4

Indicate whether each statement is true or false.

The compound CO₂ has three carbon atoms.

Yes

No

Water (H₂O) contains two hydrogen atoms and one oxygen atom.

Yes

No

A molecule of methane (CH₄) contains four carbon atoms.

Yes

No

The formula NH₃ represents a molecule with three nitrogen atoms.

Yes

No

Oxygen gas (O₂) is made up of two oxygen atoms.

Yes

No

Carbon dioxide is composed of two oxygen atoms and two carbon atoms.

Yes

No

Why is it important to learn how to count atoms in chemical formulas?