



Name _____ Class _____ Date _____

1

How many atoms of **oxygen (O)** are in the **chemical formula** below?

- A 4
- B 5
- C 7
- D 12



3

Carbon (C) and hydrogen (H) create **covalent bonds** to share **electrons** between them. What is the total number of electrons being shared between **carbon** and **hydrogen** in the molecule of propane shown below?

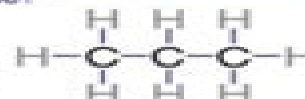
- A 8
- B 11
- C 16
- D 32



2

The diagram shown below is a **structural formula** for the gas **propane**. What would be the correct **chemical formula** for propane?

- A C_3H_6
- B CH_6
- C $8\text{H}_3\text{C}$
- D CH



4

The **reason** why the bonds between carbon (C) and hydrogen (H) are **covalent** is _____

- A C and H do not have electrons to give away
- B C and H are both nonmetals
- C C and H are both metalloids
- D C and H can bond only by sharing electrons



5

The diagram below represents the **structural formula** for several **water molecules**. How many **molecules** are represented?

- A 3
- B 5
- C 10
- D 15



6

Explain the **arrangement** of the molecules in the diagram of water below.

- A it is a lucky arrangement
- B water molecules are sticky
- C water molecules have polarity
- D water molecules are magnetic



7

Water molecules have some **polarity** in their structure. Using the diagram below, notice how the ends of H atoms (**positive**) and O atoms (**negative**) meet. This property is the **reason** that _____

- A water forms droplets easily
- B water boils easily
- C ice melts easily
- D water has color



8

Since H atoms are slightly **positive** and the O atoms are slightly **negative**, molecules of water have **polarity**. This makes water a **good** _____

- A solute
- B refrigerant
- C solvent
- D magnet



9

The chemical formula for the **oxygen** that we breathe is _____

- A O
- B O_2
- C O_3
- D 2O



10

How many **molecules of oxygen** are represented in the chemical formula below?

- A 2
- B 4
- C 6
- D 18



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Tayfun Tutak



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