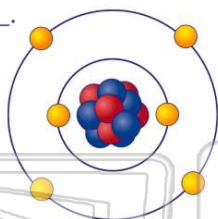




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

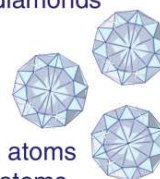
- 1 The main characteristic of all **organic** compounds is that these compounds **contain** \_\_\_\_\_.

- A nitrogen
- B oxygen
- C hydrogen
- D carbon



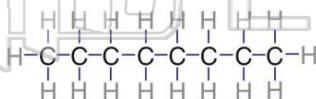
- 2 **Diamonds** are extremely hard. The reason for this is that diamonds are made of a \_\_\_\_\_.

- A tight network of carbon atoms
- B loose network of carbon atoms
- C tight network of oxygen atoms
- D loose network of hydrogen atoms



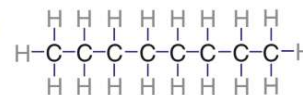
- 3 Determine the **name** for the fuel shown below.

- A butane
- B acetylene
- C oil
- D octane



- 4 The diagram below is the structural formula for **octane**. This substance is an **important ingredient** in \_\_\_\_\_.

- A natural gas
- B tar
- C gasoline



## PREVIEW

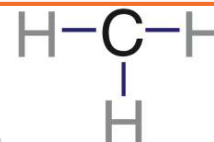
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- 7
- Methane is a gas. Methane is \_\_\_\_\_.

- A CH<sub>4</sub>
- B SO<sub>2</sub>
- C H<sub>2</sub>O
- D CO

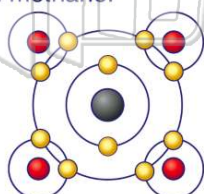


- B butane
- C propane
- D methane



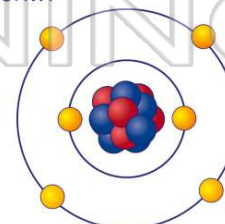
- 9 Use the diagram below to determine the **number of bonds** between carbon and hydrogen in methane.

- A 2
- B 4
- C 8
- D 15



- 10 Which type of **chemical bond** is carbon most likely to form?

- A ionic
- B metallic
- C covalent
- D molecular

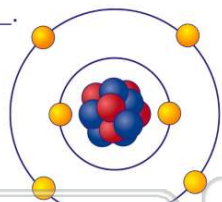




## ANSWER KEY

The main characteristic of all **organic** compounds is that these compounds **contain** \_\_\_\_\_.

- A nitrogen
- B oxygen
- C hydrogen
- D carbon



(d)

**Diamonds** are extremely hard. The reason for this is that diamonds are made of a \_\_\_\_\_.

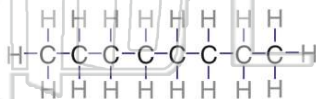
- A tight network of carbon atoms
- B loose network of carbon atoms
- C tight network of oxygen atoms
- D loose network of hydrogen atoms



(a)

Determine the **name** for the fuel shown below.

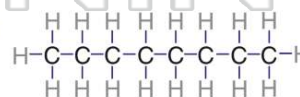
- A butane
- B acetylene
- C oil
- D octane



(d)

The diagram below is the structural formula for **octane**. This substance is an **important ingredient** in \_\_\_\_\_.

- A natural gas
- B tar
- C gasoline
- D wood



(c)



## PREVIEW

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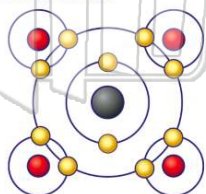
- A CH<sub>4</sub>
- B SO<sub>2</sub>
- C H<sub>2</sub>O
- D CO



- D methane

Use the diagram below to determine the **number of bonds** between carbon and hydrogen in methane.

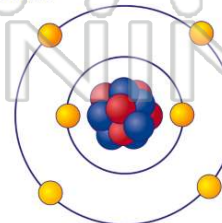
- A 2
- B 4
- C 8
- D 15



(b)

Which type of **chemical bond** is carbon most likely to form?

- A ionic
- B metallic
- C covalent
- D molecular



(c)