

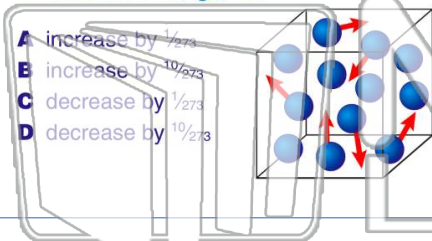


Name _____ Class _____ Date _____

1

As the **temperature of a gas is increased** from 0°C to 10°C at **constant pressure**, the **volume of the gas** will

- A increase by $\frac{1}{273}$
- B increase by $\frac{10}{273}$
- C decrease by $\frac{1}{273}$
- D decrease by $\frac{10}{273}$



2

A gas sample consisting of 2 moles of hydrogen and 1 mole of oxygen is collected over water at 29°C and 750 torr.

What is the **partial pressure of the hydrogen** in the sample?

- A 240 torr
- B 480 torr
- C 720 torr
- D 750 torr

3

The stoppered tubes below, labeled A through D, each contain a **different** gas. When the tubes are unstoppered at the same time and under the same conditions of

4

If 60 liters of hydrogen gas at 546 K is **cooled** to 273 K at **constant pressure**, the **new volume** of the gas will be

5

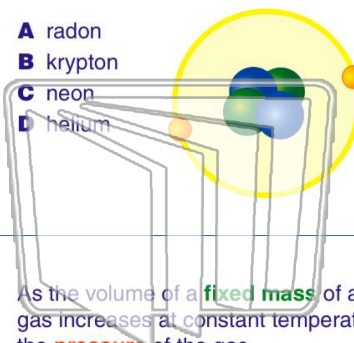


PREVIEW

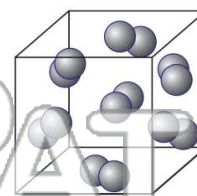
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7

- A radon
- B krypton
- C neon
- D helium



- A 1.00 L
- B 2.00 L
- C 11.2 L
- D 22.4 L



9

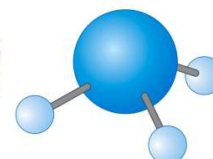
As the volume of a **fixed mass** of a gas increases at constant temperature, the **pressure** of the gas

- A decreases
- B increases
- C remains the same

10

At STP, a **22.4-liter sample of $\text{NH}_3(\text{g})$** contains the **same** number of molecules as

- A 11.2 L of $\text{H}_2(\text{g})$
- B 22.4 L of $\text{CO}_2(\text{g})$
- C 33.6 L of $\text{CH}_4(\text{g})$
- D 44.8 L of $\text{O}_2(\text{g})$



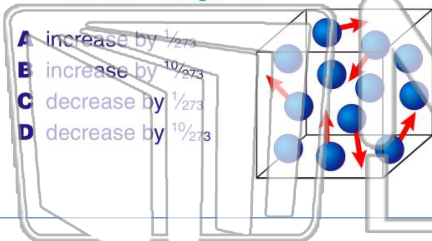


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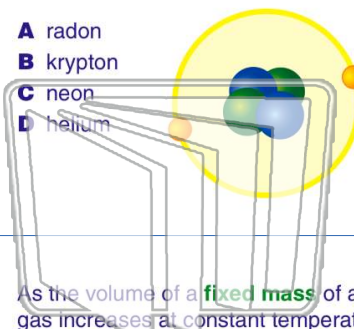


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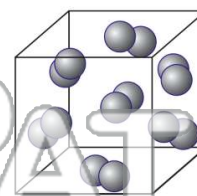
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