

Physical Science Warm Up 5/17/17

Clickers and Journals - Provide work, evidence, or reasoning

<http://www.crackact.com/act/science/test458.html>



- 1 What can be said about the mass of one molecule of helium and one molecule of oxygen gas?
 - A One molecule of helium has the same mass as one molecule of hydrogen gas.
 - B One molecule of oxygen is 8 times more massive than one molecule of helium.
 - C One molecule of helium is 8 times more massive than one molecule of oxygen gas.
 - D One molecule of oxygen gas is 4 times more massive than one molecule of helium.

2 Chemists counted molecules in the unit of moles. Avogadro stated that 1 mole (mol) of gas particles at 1 atm and 0°C takes up a volume of 22.4 L. What is the mass of 1 mol of oxygen gas molecules?

A 32.0 g

B 16.0 g

C 8.0 g

D 4.0 g