The Mole

Multiple Choice

Identify the choice that best completes the statement or answers the question.

			How do you find formula mass?a. look on the periodic tableb. add the masses of each atom in the compound		multiply the wavelength times the frequency weigh it on a scale
			What is the unit that mass is measured in? a. grams b. mile		moles particle
			How many atoms are present in 179.0 g of a. 5.606×10^{23} atoms b. 6.464×10^{23} atoms	c.	ium? 1.078×10^{26} atoms 1.157×10^{26} atoms
)]		 Which of these is about 2 moles? a. 2.0 liter (dm³) of H₂ b. 4.0 grams of H₂ 		2.0×10^{23} molecule of H ₂ 4.0 kilograms of H ₂
1			 lelium is a noble gas which is very unreactiv helium atoms would be found in 2.00 mole a. 1.20 x 10²⁴ atom b. 6.02 x 10²³ atoms 	es of c.	
_			What is the mass in gram of one mole of s a. 48.1 g b. 64.1 g	с.	ar dioxide (SO ₂)? 80.1 g 96.1 g
			How many moles of bromine ga (Br ₂) are a. 0.236 c. 3.01 × 1 b. 0.472		7.7 grams? d. 79.9 e. none of the above
		8.	How many molecules are in 0.500 mole of a. 1.20×10^2 molecules b. 3.01×10^{23} molecules	c.	D_5 ? 6.02×10^{23} molecules 3.01×10^{24} molecule
	 9. Students are given two samples of material. The first sample contains 1 mole of iron (second sample contains 1 mole of lithium (Li). Which of the following statements beshow these samples compare to one another. a. Sample 1 contains more atoms than sample 2. b. Sample 2 has a greater mass than sample 1. c. Both samples have the same mass when placed on a scale. d. Each sample contains the same number of atoms. 				
	10.	a.		. 8	dioxide (SO ₂)? 30.1 g 26.1 g
	11.	Ti a. b.		. 9	In gas (O ₂) is — 0.03×10^{23} 5.02×10^{23}
	12.	w a. b.		. 1	umber? Atomic mass Atomic number
	15.	a.	•	. 4 I. 5	•