REVIEW

SECTION 3.4

Using Moles to Count Atoms

1. I	Define a mole.	
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2. I	dentify which of the following statements are correct:	
_	a. 1 mol of titanium, Ti, is 47.88 g	c. 2 mol of carbon, C, are 24.02 g
_	b. 1 mol of strontium, Sr, is 40.08 g	d. 1 mol of mercury, Hg, is 200.6 g
3. E	Explain why the mole is used as a counting unit for atoms.	
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4. I	Determine the molar mass of each of the following elemen	ts:
	a. calcium, Ca	c. sulfur, S
_	b. cobalt, Co	d. oxygen, O
	utline the steps required to find the mass in grams of an element from a given mount of the element in moles.	
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- 5. E	Determine the mass in grams of each of the following:	
_	a. 0.60 mol of neon, Ne	c. 1.9 mol of selenium, S
_	b. 5.01 mol of xenon, Xe	d. 3.3 mol of gold, Au
7. D	Determine the amount in moles of each of the following:	
_	a. 0.35 g of hydrogen, H	c. 26 g of chromium, Cr
	b. 405 g of boron, B	d. 8.5 g of sulfur, S

CHAPTER 3