	N	Name:		
		Class Period:		
Simplest (Empirical) Formula Directions: Find the empirical formula for each of the compounds whose percentage composition is given below.				
1.	88.8% copper; 11.2% oxygen	Answer:		
2.	40.0% carbon; 6.67% hydrogen; 53.33% oxygen	Answer:		
3.	70.0% iron; 30.0% oxygen	Answer:		
4.	10.1% carbon; 0.9% hydrogen; 89.1% chlorine	Answer:		
5.	12.6% hydrogen; 37.5% carbon; 50.1% oxygen	Answer:		
6.	60.2% terbium; 39.9% chlorine	Answer:		
7.	52.8% aluminum; 47.1% oxygen	Answer:		
8.	72.41% iron; 27.60% oxygen	Answer:		

Answer:

Answer:

9. 72.2% magnesium; 27.8% nitrogen

10 74.1% carbon; 8.6% hydrogen; 17.3% nitrogen

	Name:			
			:	
Siı	nplest (Empirical) Formula - KEY			
Directions : Find the empirical formula for each of the compounds whose percentage composition is given below.				
1.	88.8% copper; 11.2% oxygen	Answer:	_Cu ₂ O	
2.	40.0% carbon; 6.67% hydrogen; 53.33% oxygen	Answer:	_CH ₂ O	
3.	70.0% iron; 30.0% oxygen	Answer:	_Fe ₂ O ₃ or (FeO ₂)_	
4.	10.1% carbon; 0.9% hydrogen; 89.1% chlorine	Answer:	_CHCl3	
5.	12.6% hydrogen; 37.5% carbon; 50.1% oxygen	Answer:	_ <i>CH₃O</i> or (<i>H₄CO</i>)_	
6.	60.2% terbium; 39.9% chlorine	Answer:	_TbCl ₃	
7.	52.8% aluminum; 47.1% oxygen	Answer:	_ <i>Al</i> ₂ <i>O</i> ₃ or (<i>AlO</i> ₂)	
8.	72.41% iron; 27.60% oxygen	Answer:	_Fe ₃ O ₄ or (FeO)	
9	72.2% magnesium; 27.8% nitrogen	Answer:N	${ m Mg_3N_2}$	

Answer: __C₅H₇N_____

10 74.1% carbon; 8.6% hydrogen; 17.3% nitrogen