

1. If an individual has a  $\text{HCO}_3^- = 23$  mmol/L and a  $\text{PCO}_2 = 48$  mmHg, what is the pH?  
**SHOW YOUR CALCULATIONS**
2. If an individual has a  $\text{pH} = 7.55$  and a  $\text{PCO}_2 = 39$  mmHg, what is the  $\text{HCO}_3^-$ ?  
**SHOW YOUR CALCULATIONS**
3. If an individual has a  $\text{pH} = 7.40$  and a  $\text{HCO}_3^- = 18$  mmol/L, what is the  $\text{PCO}_2$ ?  
**SHOW YOUR CALCULATIONS**