

LVN-RN Acid Base Worksheet

pH 7.35-7.45
 PaO2 80-100
 SaO2 > 95%
 PaCO2 35-45
 HCO3 22-26

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Please indicate if the following are Respiratory Acidosis, Respiratory Alkalosis, Metabolic Acidosis, or Metabolic Alkalosis. Also indicate if we have no compensation, partial compensation, or full compensation.

1. pH 7.21
 CO2 35
 HCO3 16

A	N	B
pH	CO2	
HCO3		

metabolic acidosis
 no compensation

2. pH 7.52
 CO2 40
 HCO3 32

A	N	B
	CO2	pH
		HCO3

metabolic alkalosis
 no compensation

3. pH 7.31
 CO2 60
 HCO3 22

A	N	B
pH	HCO3	
CO2		

Respiratory acidosis
 no compensation

4. pH 7.6
 CO2 30
 HCO3 26

A	N	B
	HCO3	pH
		CO2

Respiratory alkalosis
 no compensation

5. pH 7.35
 CO2 64
 HCO3 32

A	N	B
← pH		
CO2		HCO3

Respiratory Acidosis with
 "full" compensation

6. pH 7.45
 CO2 27
 HCO3 20

A	N	B
	pH →	
HCO3		CO2

Respiratory alkalosis with
 full compensation

7. pH 7.38
 CO2 27
 HCO3 16

A	N	B
← pH		
HCO3		CO2

metabolic acidosis with
 full compensation

8. pH 7.43
 CO2 56
 HCO3 33

A	N	B
CO2	pH →	
		HCO3

metabolic alkalosis with
 full compensation