

## LVN-RN Acid Base Worksheet

### KEY

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 Metabolic Acidosis: No compensation  
CO<sub>2</sub> 35  
HCO<sub>3</sub> 16
  
2. pH 7.52 Metabolic Alkalosis: No compensation  
CO<sub>2</sub> 40  
HCO<sub>3</sub> 32
  
3. pH 7.31 Respiratory Acidosis: No compensation  
CO<sub>2</sub> 60  
HCO<sub>3</sub> 22
  
4. pH 7.6 Respiratory Alkalosis: No compensation  
CO<sub>2</sub> 30  
HCO<sub>3</sub> 26
  
5. pH 7.35 Respiratory Acidosis: Compensated  
CO<sub>2</sub> 64  
HCO<sub>3</sub> 32
  
6. pH 7.45 Respiratory Alkalosis: Compensated  
CO<sub>2</sub> 27  
HCO<sub>3</sub> 20
  
7. pH 7.38 Metabolic Acidosis: Compensated  
CO<sub>2</sub> 27  
HCO<sub>3</sub> 16
  
8. pH 7.43 Metabolic Alkalosis: Compensated  
CO<sub>2</sub> 56  
HCO<sub>3</sub> 33

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9. pH 7.31 Respiratory Acidosis: partially compensated  
CO<sub>2</sub> 52  
HCO<sub>3</sub> 30
  
10. pH 7.53 Respiratory alkalosis: partially compensation  
CO<sub>2</sub> 28  
HCO<sub>3</sub> 18
  
11. pH 7.22 Metabolic Acidosis: partial Compensation  
CO<sub>2</sub> 26  
HCO<sub>3</sub> 14
  
12. pH 7.56 Metabolic Alkalosis: partial compensation  
CO<sub>2</sub> 51  
HCO<sub>3</sub> 35
  
13. pH 7.43 Metabolic Alkalosis: partial compensation  
CO<sub>2</sub> 50  
HCO<sub>3</sub> 32
  
14. pH 7.50 Metabolic Alkalosis: no compensation  
CO<sub>2</sub> 36  
HCO<sub>3</sub> 27
  
15. pH 7.42 Respiratory Alkalosis: Compensated  
CO<sub>2</sub> 16  
HCO<sub>3</sub> 10
  
16. pH 7.52 Respiratory Alkalosis: no compensation  
CO<sub>2</sub> 30  
HCO<sub>3</sub> 24
  
17. pH 7.50 Respiratory Alkalosis: no compensation  
CO<sub>2</sub> 30  
HCO<sub>3</sub> 23

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18. pH 7.30 Respiratory Acidosis: no compensation  
CO2 55  
HCO3 26
19. pH 7.51 Respiratory Alkalosis: partially compensated  
CO2 18  
HCO3 14
20. pH 7.33 Metabolic Acidosis: no compensation  
CO2 38  
HCO3 19
21. pH 7.29 Respiratory Acidosis: no compensation  
CO2 49  
HCO3 23
22. pH 7.22 Metabolic Acidosis: partial compensation  
CO2 23  
HCO3 9
23. pH 7.28 Metabolic Acidosis: partial compensation  
CO2 18  
HCO3 8
24. pH 7.33 Metabolic Acidosis: partial compensation  
CO2 15  
HCO3 8
25. pH 7.46 Metabolic Alkalosis; partial compensation  
CO2 57  
HCO3 39