

LVN-RN Acid Base Worksheet

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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  
CO<sub>2</sub> 35                      metabolic acidosis; uncompensated  
HCO<sub>3</sub> 16
  
2. pH 7.52  
CO<sub>2</sub> 40                      metabolic alkalosis; uncompensated  
HCO<sub>3</sub> 32
  
3. pH 7.31  
CO<sub>2</sub> 60                      respiratory acidosis; uncompensated  
HCO<sub>3</sub> 22
  
4. pH 7.6  
CO<sub>2</sub> 30                      respiratory alkalosis; uncompensated  
HCO<sub>3</sub> 26
  
5. pH 7.35  
CO<sub>2</sub> 64                      respiratory acidosis; fully compensated  
HCO<sub>3</sub> 32
  
6. pH 7.45  
CO<sub>2</sub> 27                      respiratory alkalosis; fully compensated  
HCO<sub>3</sub> 20
  
7. pH 7.38  
CO<sub>2</sub> 27                      metabolic acidosis; fully compensated  
HCO<sub>3</sub> 16
  
8. pH 7.43  
CO<sub>2</sub> 56                      metabolic alkalosis; fully compensated  
HCO<sub>3</sub> 33

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|-----|------------------|------|--|
| 9.  | pH               | 7.31 |  |
|     | CO <sub>2</sub>  | 52   | respiratory acidosis; partially compensated  |
|     | HCO <sub>3</sub> | 30   |  |
| 10. | pH               | 7.53 |  |
|     | CO <sub>2</sub>  | 28   | respiratory alkalosis; partially compensated |
|     | HCO <sub>3</sub> | 18   |  |
| 11. | pH               | 7.22 |  |
|     | CO <sub>2</sub>  | 26   | metabolic acidosis; partially compensated    |
|     | HCO <sub>3</sub> | 14   |  |
| 12. | pH               | 7.56 |  |
|     | CO <sub>2</sub>  | 51   | metabolic alkalosis; partially compensated   |
|     | HCO <sub>3</sub> | 35   |  |
| 13. | pH               | 7.43 |  |
|     | CO <sub>2</sub>  | 50   | metabolic alkalosis; fully compensated       |
|     | HCO <sub>3</sub> | 32   |  |
| 14. | pH               | 7.50 |  |
|     | CO <sub>2</sub>  | 36   | metabolic alkalosis; uncompensated           |
|     | HCO <sub>3</sub> | 27   |  |
| 15. | pH               | 7.42 |  |
|     | CO <sub>2</sub>  | 16   | respiratory alkalosis; fully compensated     |
|     | HCO <sub>3</sub> | 10   |  |
| 16. | pH               | 7.52 |  |
|     | CO <sub>2</sub>  | 30   | respiratory alkalosis; uncompensated         |
|     | HCO <sub>3</sub> | 24   |  |
| 17. | pH               | 7.50 |  |
|     | CO <sub>2</sub>  | 30   | respiratory alkalosis; uncompensated         |
|     | HCO <sub>3</sub> | 23   |  |

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|-----|------------------|------|--|
| 18. | pH               | 7.30 |  |
|     | CO <sub>2</sub>  | 55   | respiratory acidosis; uncompensated          |
|     | HCO <sub>3</sub> | 26   |  |
| 19. | pH               | 7.51 |  |
|     | CO <sub>2</sub>  | 18   | respiratory alkalosis; partially compensated |
|     | HCO <sub>3</sub> | 14   |  |
| 20. | pH               | 7.33 |  |
|     | CO <sub>2</sub>  | 38   | metabolic acidosis; uncompensated            |
|     | HCO <sub>3</sub> | 19   |  |
| 21. | pH               | 7.29 |  |
|     | CO <sub>2</sub>  | 49   | respiratory acidosis; uncompensated          |
|     | HCO <sub>3</sub> | 23   |  |
| 22. | pH               | 7.22 |  |
|     | CO <sub>2</sub>  | 23   | metabolic acidosis; partially compensated    |
|     | HCO <sub>3</sub> | 9    |  |
| 23. | pH               | 7.28 |  |
|     | CO <sub>2</sub>  | 18   | metabolic acidosis; partially compensated    |
|     | HCO <sub>3</sub> | 8    |  |
| 24. | pH               | 7.33 |  |
|     | CO <sub>2</sub>  | 15   | metabolic acidosis; partially compensated    |
|     | HCO <sub>3</sub> | 8    |  |
| 25. | pH               | 7.46 |  |
|     | CO <sub>2</sub>  | 57   | metabolic alkalosis; partially compensated   |
|     | HCO <sub>3</sub> | 39   |  |