

LVN-RN Acid Base Worksheet

Name: _____ Esmeralda Valle _____

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. Metabolic acidosis, no compensation
HCO₃ 16

2. pH 7.52
CO₂ 40 Metabolic alkalosis, no compensation
HCO₃ 32

3. pH 7.31
CO₂ 60 Respiratory acidosis, no compensation
HCO₃ 22

4. pH 7.6
CO₂ 30 Respiratory alkalosis, no compensation
HCO₃ 26

5. pH 7.35
CO₂ 64. Respiratory acidosis, compensated
HCO₃ 32

6. pH 7.45
CO₂ 27 Respiratory alkalosis, uncompensated
HCO₃ 20

7. pH 7.38
CO₂ 27 Respiratory acidosis, compensated
HCO₃ 16

8. pH 7.43
CO₂ 56 Respiratory alkalosis, compensated
HCO₃ 33

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| 9. | pH | 7.31 | |
| | CO ₂ | 52 | Respiratory acidosis, partially compensated |
| | HCO ₃ | 30 | |
| 10. | pH | 7.53 | |
| | CO ₂ | 28 | Respiratory alkalosis, partially compensated |
| | HCO ₃ | 18 | |
| 11. | pH | 7.22 | |
| | CO ₂ | 26 | metabolic acidosis, partially compensated |
| | HCO ₃ | 14 | |
| 12. | pH | 7.56 | |
| | CO ₂ | 51 | metabolic alkalosis, partially compensated |
| | HCO ₃ | 35 | |
| 13. | pH | 7.43 | |
| | CO ₂ | 50 | Respiratory alkalosis, compensated |
| | HCO ₃ | 32 | |
| 14. | pH | 7.50 | |
| | CO ₂ | 36 | metabolic alkalosis, uncompensated |
| | HCO ₃ | 27 | |
| 15. | pH | 7.42 | |
| | CO ₂ | 16 | Respiratory acidosis, compensated |
| | HCO ₃ | 10 | |
| 16. | pH | 7.52 | |
| | CO ₂ | 30 | Respiratory alkalosis, not compensated |
| | HCO ₃ | 24 | |
| 17. | pH | 7.50 | |
| | CO ₂ | 30 | Respiratory alkalosis, not compensated |
| | HCO ₃ | 23 | |

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18. pH 7.30
CO₂ 55 Respiratory acidosis, not compensated
HCO₃ 26
19. pH 7.51
CO₂ 18 Respiratory alkalosis, partially compensated
HCO₃ 14
20. pH 7.33
CO₂ 38 metabolic acidosis, not compensated
HCO₃ 19
21. pH 7.29
CO₂ 49 Respiratory acidosis, not compensated
HCO₃ 23
22. pH 7.22
CO₂ 23 metabolic acidosis, partially compensated
HCO₃ 9
23. pH 7.28
CO₂ 18 metabolic acidosis, partially compensated
HCO₃ 8
24. pH 7.33
CO₂ 15 metabolic acidosis partially compensated
HCO₃ 8
25. pH 7.46
CO₂ 57 metabolic alkalosis, partially compensated
HCO₃ 39