

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 - A
CO₂ 35 - N
HCO₃ 16 - A metabolic acidosis no compensation

2. pH 7.52 - B
CO₂ 40 - N
HCO₃ 32 - B metabolic alkalosis no compensation

3. pH 7.31 - A
CO₂ 60 - A
HCO₃ 22 - N respiratory acidosis no compensation

4. pH 7.6 - B
CO₂ 30 - B
HCO₃ 26 - N respiratory alkalosis no compensation

5. pH 7.35 - N
CO₂ 64 - A
HCO₃ 32 - B respiratory acidosis full compensation

6. pH 7.45 - N
CO₂ 27 - B
HCO₃ 20 - A respiratory alkalosis full compensation

7. pH 7.38 - N
CO₂ 27 - B
HCO₃ 16 - A metabolic acidosis full compensation

8. pH 7.43 - N
CO₂ 56 - A
HCO₃ 33 - B metabolic alkalosis full compensation

LVN-RN Acid Base Worksheet

9. pH 7.31 - A
CO₂ 52 - A
HCO₃ 30 - B respiratory acidosis partial compensation

10. pH 7.53 - B
CO₂ 28 - B
HCO₃ 18 - A respiratory alkalosis partial compensation

11. pH 7.22 - A
CO₂ 26 - B
HCO₃ 14 - A metabolic acidosis partial compensation

12. pH 7.56 - B
CO₂ 51 - A
HCO₃ 35 - B metabolic alkalosis partial compensation

13. pH 7.43 - N
CO₂ 50 - A
HCO₃ 32 - B metabolic alkalosis full compensation

14. pH 7.50 - B
CO₂ 36 - N
HCO₃ 27 - B metabolic alkalosis no compensation

15. pH 7.42 - N
CO₂ 16 - B
HCO₃ 10 - A respiratory alkalosis full compensation

16. pH 7.52 - B
CO₂ 30 - B
HCO₃ 24 - N respiratory alkalosis no compensation

17. pH 7.50 - B
CO₂ 30 - B
HCO₃ 23 - N respiratory alkalosis no compensation

LVN-RN Acid Base Worksheet

18. pH 7.30 - A
CO₂ 55 - A
HCO₃ 26 - N respiratory acidosis no compensation
19. pH 7.51 - B
CO₂ 18 - B
HCO₃ 14 - A respiratory alkalosis partial compensation
20. pH 7.33 - A
CO₂ 38 - N
HCO₃ 19 - A metabolic acidosis no compensation
21. pH 7.29 - A
CO₂ 49 - A
HCO₃ 23 - N respiratory acidosis no compensation
22. pH 7.22 - A
CO₂ 23 - B
HCO₃ 9 - A metabolic acidosis partial compensation
23. pH 7.28 - A
CO₂ 18 - B
HCO₃ 8 - A metabolic acidosis partial compensation
24. pH 7.33 - A
CO₂ 15 - B
HCO₃ 8 - A metabolic acidosis partial compensation
25. pH 7.46 - B
CO₂ 57 - A
HCO₃ 39 - B metabolic alkalosis partial compensation