

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 (Acid)
CO₂ 35 (Normal)
HCO₃ 16 (Acid)

Metabolic Acidosis (no compensation)

2. pH 7.52 (Alkalosis)
CO₂ 40 (Normal)
HCO₃ 32 (Alkalosis)

Metabolic Alkalosis (no compensation)

3. pH 7.31 (Acid)
CO₂ 60 (Acid)
HCO₃ 22 (Normal)

Respiratory Acidosis (no compensation)

4. pH 7.61 (Alkalosis)
CO₂ 30 (Alkalosis)
HCO₃ 26 (Normal)

Respiratory Alkalosis (no compensation)

5. pH 7.35 (Normal)
CO₂ 64 (Acid)
HCO₃ 32 (Alkalosis)

6. pH 7.45 (Normal)
CO₂ 27 (Alkalosis)
HCO₃ 20 (Acidosis)

7. pH 7.38 (Normal)
CO₂ 27 (Acid)
HCO₃ 16 (Acid)

Respiratory Acidosis (no compensation)

8. pH 7.43 (Normal)
CO₂ 56 (Acid)
HCO₃ 33 (Alkalosis)

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9. pH 7.31 (Acid)
CO₂ 52 (Acid)
HCO₃ 30 (Alkalosis)

Respiratory Acidosis (partial compensation)

10. pH 7.53 (Alkalosis)
CO₂ 28 (Alkalosis)
HCO₃ 18 (Acid)

Respiratory Alkalosis (partial compensation)

11. pH 7.22 (Acid)
CO₂ 26 (Alkalosis)
HCO₃ 14 (Acid)

Metabolic Acidosis (partial compensation)

12. pH 7.56 (Alkalosis)
CO₂ 51 (Acid)
HCO₃ 35 (Alkalosis)

Metabolic Alkalosis (partial compensation)

13. pH 7.43 (Normal)
CO₂ 50 (Acid)
HCO₃ 32 (Alkalosis)

14. pH 7.50 (Alkalosis)
CO₂ 36 (Normal)
HCO₃ 27 (Alkalosis)

Metabolic Alkalosis (no compensation)

15. pH 7.42 (Normal)
CO₂ 16 (Alkalosis)
HCO₃ 10 (Acid)

16. pH 7.52 (Alkalosis)
CO₂ 30 (Alkalosis)
HCO₃ 24 (Acid)

Respiratory Alkalosis (partial compensation)

17. pH 7.50 (Alkalosis)
CO₂ 30 (Alkalosis)
HCO₃ 23 (Acid)

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Respiratory Alkalosis (partial compensation)

18. pH 7.30 (Acid)
CO₂ 55 (Acid)
HCO₃ 26 (Normal)

Respiratory Acidosis (no compensation)

19. pH 7.51 (Alkalosis)
CO₂ 18 (Alkalosis)
HCO₃ 14 (Acid)

Respiratory Alkalosis (Partial compensation)

20. pH 7.33 (Acid)
CO₂ 38 (Normal)
HCO₃ 19 (Acid)

Metabolic Acidosis (no compensation)

21. pH 7.29 (Acid)
CO₂ 49 (Acid)
HCO₃ 23 (Acid)

22. pH 7.22 (Acid)
CO₂ 23 (Alkalosis)
HCO₃ 9 (Acid)

Metabolic Acidosis (partial compensation)

23. pH 7.28 (Acid)
CO₂ 18 (Alkalosis)
HCO₃ 8 (Acid)

Metabolic Acidosis (partial compensation)

24. pH 7.33 (Acid)
CO₂ 15 (Alkalosis)
HCO₃ 8 (Acid)

Metabolic Acidosis (partial compensation)

25. pH 7.46 (Alkalosis)
CO₂ 57 (Acid)
HCO₃ 39 (Alkalosis)

Metabolic Alkalosis (partial compensation)