

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
CO₂ 35
HCO₃ 16

Metabolic Acidosis uncompensated

2. pH 7.52
CO₂ 40
HCO₃ 32

Metabolic Alkalosis uncompensated

3. pH 7.31
CO₂ 60
HCO₃ 22

Respiratory Acidosis uncompensated

4. pH 7.6
CO₂ 30
HCO₃ 26

Respiratory Alkalosis uncompensated

5. pH 7.35
CO₂ 64
HCO₃ 32

Respiratory Acidosis Fully Compensated

6. pH 7.45
CO₂ 27
HCO₃ 20

Metabolic Acidosis Fully Compensated

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7. pH 7.38
CO₂ 27
HCO₃ 16

Respiratory Alkalosis Fully Compensated

8. pH 7.43
CO₂ 56
HCO₃ 33

Respiratory Acidosis Fully Compensated

9. pH 7.31
CO₂ 52
HCO₃ 30

Respiratory Acidosis Partially Compensated

10. pH 7.53
CO₂ 28
HCO₃ 18

Respiratory Alkalosis Partially Compensated

11. pH 7.22
CO₂ 26
HCO₃ 14

Metabolic Acidosis Partially Compensated

12. pH 7.56
CO₂ 51
HCO₃ 35

Metabolic Alkalosis Partially Compensated

13. pH 7.43
CO₂ 50
HCO₃ 32

Metabolic Alkalosis Fully Compensated

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14. pH 7.50
CO₂ 36
HCO₃ 27

Metabolic Alkalosis Uncompensated

15. pH 7.42
CO₂ 16
HCO₃ 10

Metabolic Acidosis Fully Compensated

16. pH 7.52
CO₂ 30
HCO₃ 24

Respiratory Alkalosis Uncompensated

17. pH 7.50
CO₂ 30
HCO₃ 23

Respiratory Alkalosis Uncompensated

18. pH 7.30
CO₂ 55
HCO₃ 26

Respiratory Acidosis Uncompensated

19. pH 7.51
CO₂ 18
HCO₃ 14

Respiratory Alkalosis Partially Compensated

20. pH 7.33
CO₂ 38
HCO₃ 19

Metabolic Acidosis Uncompensated

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21. pH 7.29
CO₂ 49
HCO₃ 23

Respiratory Acidosis Uncompensated

22. pH 7.22
CO₂ 23
HCO₃ 9

Metabolic Acidosis Partially Compensated

23. pH 7.28
CO₂ 18
HCO₃ 8

Metabolic Acidosis Partially Compensated

24. pH 7.33
CO₂ 15
HCO₃ 8

Metabolic Acidosis Partially Compensated

25. pH 7.46
CO₂ 57
HCO₃ 39

Metabolic Alkalosis Partially Compensated