

LVN-RN Acid Base Worksheet

pH ^{aci} 7.35 - 7.45 ^{alk}
 paco_2 ^{alk} 35 - 45 ^{aci}
 hco_3 ^{aci} 22 - 26 ^{alk}

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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 acidosis
 CO2 35 normal
 HCO3 16 acidosis

uncompensated
 metabolic
 acidosis
2. pH 7.52 alkalosis
 CO2 40 normal
 HCO3 32 alkalosis

uncompensated
 metabolic
 alkalosis
3. pH 7.31 acidosis
 CO2 60 acidosis
 HCO3 22 normal

uncompensated
 respiratory
 acidosis
4. pH 7.6 alkalosis
 CO2 30 alkalosis
 HCO3 26 normal

uncompensated
 respiratory
 alkalosis
5. pH 7.35 normal
 CO2 64 acidosis
 HCO3 32 alkalosis

fully
 compensated
 respiratory
 acidosis
6. pH 7.45 normal
 CO2 27 alkalosis
 HCO3 20 acidosis

fully
 compensated
 respiratory
 alkalosis
7. pH 7.38 normal
 CO2 27 alkalosis
 HCO3 16 acidosis

fully
 compensated
 metabolic
 acidosis
8. pH 7.43 normal
 CO2 56 acidosis
 HCO3 33 alkalosis

fully
 compensated
 metabolic
 alkalosis

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

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