

LVN-RN Acid Base Worksheet

Name: Todd Phillips

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 metabolic acidosis, no compensation
 CO2 35
 HCO3 16

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

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

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

5. pH 7.35 respiratory acidosis, full metabolic compensation
 CO2 64
 HCO3 32

6. pH 7.45 respiratory alkalosis, full metabolic compensation
 CO2 27
 HCO3 20

7. pH 7.38 metabolic acidosis, full respiratory compensation
 CO2 27
 HCO3 16

8. pH 7.43 metabolic alkalosis, full respiratory compensation
 CO2 56
 HCO3 33

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| 9. | pH | 7.31 | respiratory acidosis, partial metabolic compensation |
| | CO ₂ | 52 | |
| | HCO ₃ | 30 | |
| 10. | pH | 7.53 | respiratory alkalosis, no compensation |
| | CO ₂ | 28 | |
| | HCO ₃ | 18 | |
| 11. | pH | 7.22 | metabolic acidosis, no compensation |
| | CO ₂ | 26 | |
| | HCO ₃ | 14 | |
| 12. | pH | 7.56 | metabolic alkalosis, partial respiratory compensation |
| | CO ₂ | 51 | |
| | HCO ₃ | 35 | |
| 13. | pH | 7.43 | metabolic alkalosis, full respiratory compensation |
| | CO ₂ | 50 | |
| | HCO ₃ | 32 | |
| 14. | pH | 7.50 | metabolic alkalosis, no compensation |
| | CO ₂ | 36 | |
| | HCO ₃ | 27 | |
| 15. | pH | 7.42 | respiratory alkalosis, full metabolic compensation |
| | CO ₂ | 16 | |
| | HCO ₃ | 10 | |
| 16. | pH | 7.52 | respiratory alkalosis, no compensation |
| | CO ₂ | 30 | |
| | HCO ₃ | 24 | |
| 17. | pH | 7.50 | respiratory alkalosis, no compensation |
| | CO ₂ | 30 | |
| | HCO ₃ | 23 | |

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|-----|------------------|------|---|
| 18. | pH | 7.30 | respiratory acidosis, no compensation |
| | CO ₂ | 55 | |
| | HCO ₃ | 26 | |
| 19. | pH | 7.51 | metabolic acidosis, no compensation |
| | CO ₂ | 18 | |
| | HCO ₃ | 14 | |
| 20. | pH | 7.33 | respiratory acidosis, partial metabolic compensation |
| | CO ₂ | 38 | |
| | HCO ₃ | 19 | |
| 21. | pH | 7.29 | respiratory acidosis, no compensation |
| | CO ₂ | 49 | |
| | HCO ₃ | 23 | |
| 22. | pH | 7.22 | metabolic acidosis, partial resp compensation |
| | CO ₂ | 23 | |
| | HCO ₃ | 9 | |
| 23. | pH | 7.28 | metabolic acidosis, partial respiratory compensation |
| | CO ₂ | 18 | |
| | HCO ₃ | 8 | |
| 24. | pH | 7.33 | metabolic acidosis, partial respiratory compensation |
| | CO ₂ | 15 | |
| | HCO ₃ | 8 | |
| 25. | pH | 7.46 | metabolic alkalosis, partial respiratory compensation |
| | CO ₂ | 57 | |
| | HCO ₃ | 39 | |