

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.

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|----|------------------|------|------------------------------------|
| 1. | pH               | 7.21 | Metabolic acidosis-no compensation |
|    | CO <sub>2</sub>  | 35   |                                    |
|    | HCO <sub>3</sub> | 16   |                                    |
  
- |    |                  |      |                                     |
|----|------------------|------|-------------------------------------|
| 2. | pH               | 7.52 | Metabolic alkalosis-no compensation |
|    | CO <sub>2</sub>  | 40   |                                     |
|    | HCO <sub>3</sub> | 32   |                                     |
  
- |    |                  |      |   |
|----|------------------|------|---|
| 3. | pH               | 7.31 | Respiratory Acidosis- full compensation |
|    | CO <sub>2</sub>  | 60   |   |
|    | HCO <sub>3</sub> | 22   |   |
  
- |    |                  |     |                                       |
|----|------------------|-----|---------------------------------------|
| 4. | pH               | 7.6 | Respiratory Acidosis- no compensation |
|    | CO <sub>2</sub>  | 30  |                                       |
|    | HCO <sub>3</sub> | 26  |                                       |
  
- |    |                  |              |  |
|----|------------------|--------------|--|
| 5. | pH               | 7.35--normal | Respiratory Acidosis-full compensation |
|    | CO <sub>2</sub>  | 64--acid     |  |
|    | HCO <sub>3</sub> | 32--normal   |  |
  
- |    |                  |      |  |
|----|------------------|------|--|
| 6. | pH               | 7.45 | Respiratory Alkalosis- full compensation |
|    | CO <sub>2</sub>  | 27   |  |
|    | HCO <sub>3</sub> | 20   |  |
  
- |    |                  |      |                                       |
|----|------------------|------|---------------------------------------|
| 7. | pH               | 7.38 | Metabolic Acidosis- full compensation |
|    | CO <sub>2</sub>  | 27   |                                       |
|    | HCO <sub>3</sub> | 16   |                                       |