

## Practicum #1

### Calculating Percent Solutions for a Medication

Following are multiple-choice and True/False examination items. Select your choice by bubbling in the correct answer in the **"Assessment and Solution"** section of the Scan Sheet.

#### Scenario

What is the percent solution for Amoxicillin Oral Suspension 250mg/5mL?

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| <ol style="list-style-type: none"><li>1. What is the correct amount of active ingredient?<br/>A) Amoxicillin<br/>B) 250mg<br/>C) 5mL<br/>D) 0.25g</li><li>2. What is the correct amount of solute?<br/>A) 250mg<br/>B) 5mL<br/>C) Amoxicillin<br/>D) Oral Suspension</li><li>3. What is the correct amount of solution?<br/>A) 0.05g<br/>B) 0.25g<br/>C) 5mL<br/>D) 250mg</li><li>4. Which of the following is the correct formula to convert the solute to proper units?<br/>A) 5mL X 1g/250mg<br/>B) 75mg X 1g/1000mg<br/>C) 250mg X 5mL/1000mg<br/>D) 250mg X 1g/1000mg</li><li>5. After converting the solute to proper units, what is the correct answer?<br/>A) 1.25mL<br/>B) 0.02g<br/>C) 0.075g<br/>D) 0.25g</li></ol> | <ol style="list-style-type: none"><li>6. What is the correct g/mL ratio of solute to solution?<br/>A) 0.075g/5mL<br/>B) 0.25g/5mL<br/>C) 250mg/5mL<br/>D) 250g/5mL</li><li>7. After calculating g/mL, what is the correct amount of solute to solution?<br/>A) 50mg/mL<br/>B) 50g/mL<br/>C) 0.015g/mL<br/>D) 0.05g/mL</li><li>8. How is the g/mL solute to solution converted to a percentage?<br/>A) Divide g/mL by 100<br/>B) Divide g/mL by 1000<br/>C) Multiply g/mL by 100<br/>D) Multiply g/mL by 1000</li><li>9. What is the correct percent solution?<br/>A) 0.05%<br/>B) 1.5%<br/>C) 5%<br/>D) 50%</li><li>10. All amounts should be calculated and labeled at each step<br/>A) True<br/>B) False</li></ol> |
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**Answer Key**

1. B & D
2. A
3. C
4. D
5. D
6. B
7. D
8. C
9. C
10. A

5 points each for 50 total points