

Introduction

Brief overview of the roles of pharmacists and pharmaceutical

Importance of math skills in these professions

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Basic Arithmetic

• Addition, subtraction, multiplication, and division

· Importance in calculating dosages and quantities

· Examples: Calculating doses, measuring liquids



Algebra

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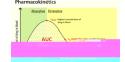
- · Solving equations and inequalities
- Importance in understanding drug formulations and interactions
- Examples: Dose calculations, adjusting medication based on patient needs, compounding
- C₁V₁=C₂V₂

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Calculus

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- Understanding rates of change and areas under curves
- Importance in pharmacokinetics and pharmacodynamics
- Examples: Drug absorption rates, concentration-time curves



Statistics

- Descriptive and inferential statistics
- Importance in clinical trials and research
- Examples: Analyzing data, determining efficacy and safety of drugs, pharmacoepidemiology/pharmacovigilance

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