



# Math Study Strategies

## Math for Nursing Solutions Measured as Milliequivalents (mEq)

Milliequivalents are used in many oral and parenteral solutions (example: potassium chloride)

Milliequivalent (mEq) is an expression of the number of grams of a medication contained in 1ml of a normal solution.

Milliequivalent dosages are written using Arabic numbers followed by mEq.

For the nurse to assure the appropriate dosage of mEq, by reading the label he/she can answer the following questions:

**POTTASIMUM  
CHLORIDE**  
INJECTION, USP  
(2 mEq/mL)  
15mL **30 mEq**  
Multiple Dose Vial

1. What is the total volume and total dosage strength of this vial?  
**Answer: 15ml/30mEq**
2. What is the dosage in mEq per ml?  
**Answer: 2 MEq/ml**
3. If you are asked to prepare 30mEq for addition to an IV , what volume would you draw up?  
**Answer: 15ml**