

MATH FOR NURSING AND ALLIED HEALTH

Math for Science webpages originally created by

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Nurses and other allied health professionals must understand medications and their administration to patients. Although the doctor and pharmacist play key roles, the nurse or other professional gives the meds to the patient and **MUST** be accurate in dosage.

Orders for medications might look like this!

3mg/kg/min

2 drops in each eye bid

150 mg tablet qd

60-120mcg/kg/hour

3 cap. qid

30mcg/kg/min

How will you translate these orders into the actions of administering the appropriate medication?

First, you do the math!

There are two math formulas commonly used in nursing math calculations:

- Ratio and Proportion on p. 4
- IV Flow Rate on p. 6-8

Need some review? Check these topics in the T/LC's *Math for Science* handout

- Metric to metric conversions
- Metric-English conversions
- Measurements in Nursing
- Percentages
- Ratio and Proportion

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Learning objectives at the beginning of each chapter offer a measurable outcome you can achieve by completing the material Chapter highlights at the end of each chapter provide a summary of the most important information covered in each chapter Review questions at the end of each chapter are tied to learning objectives further enhance your understanding Case studies challenge you to apply your knowledge and help strengthen your critical thinking skills Glossary at the end of the book provides quick access to key terms and definitions NEW Expanded chapter on Vaccines as the importance of vaccines continues to become more evident NEW Updated chapter on Molecular Techniques incorporates the newest technology specific to immunology NEW Key terms at the beginning of each chapter help you learn the important vocabulary in immunology NEW Case studies with added multiple choice questions in addition to critical thinking questions will help you apply your knowledge and develop critical thinking skills

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5.5 - Hypothesis Testing for Two-Sample Proportions We are now going to develop the hypothesis test for the difference of two proportions for independent samples. The hypothesis test follows the same steps as ... Two-Sample t-Test | Introduction to Statistics The two-sample t-test is a method used to test whether the unknown population means of two groups are equal or not. Learn more by following along with our ... 1.3.5.3. Two-Sample *t*-Test for Equal Means Purpose: Test if two population means are equal, The two-sample t-test (Snedecor and Cochran, 1989) is used to determine if two population means are equal. 2 Sample t-Test (1 tailed) Suppose we have two samples of ceramic sherd thickness collected from an archaeological site, where the two samples are easily distinguishable by the use of. Two sample t-test: SAS instruction Note that the test is two-sided (sides=2), the significance level is 0.05, and the test is to compare the difference between two means ($\mu_1 - \mu_2$) against 0 (H_0 ...