

Name: Reg

Date: \_\_\_\_\_

## Student Exploration: Drug Dosage

**Vocabulary:** controlled release, dosage, drug, overdose, target organ

**Prior Knowledge Question** (Do this BEFORE using the Gizmo.)

Suppose you take aspirin for a headache. What happens after you swallow the pill?

Aspirin will go into your system and start working to reduce the pain of your headache.

### Gizmo Warm-up

A **drug** is a substance that causes changes in how your body functions. When you swallow a pill, the pill dissolves in your digestive system and the drug is absorbed into your bloodstream. Many drugs are designed to affect specific **target organs**.

The **Drug Dosage Gizmo** allows you to monitor the concentration of drugs in the bloodstream and target organ of a patient. To begin, check that **Pill Type A** is selected. Pill A is a general painkiller similar to aspirin. Click **Play** (▶) and press the **Take Pill** button.



1. Click **Pause** (⏸) after about 10 minutes of simulated time. In the **Drug levels** panel, observe the concentration of drug in the blood. The unit of concentration is micrograms per cubic centimeter (mcg/cc).

Has any drug entered the bloodstream after 10 minutes? not yet

2. Change the simulation speed to 2, and press **Play**. Click **Pause** when the **BLOOD** value starts to increase. How long does it take for the drug to reach the blood? It took about 30s. <sup>minutes</sup>
3. Click **Play**, and then click **Pause** when the patient starts to smile. Approximately what concentration of drug is needed to relieve the patient's pain? Approximately 15.00 at 40 mins.



# Drug Dosage Gizmo Answer Key

**Mary Ann Fravel Norville**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Drug Dosage Gizmo Answer Key:**

**Easy 4-step Method to Drug Calculations** S. D. Foust, 2004 This resource makes the difficult concept of drug dosage calculations easy to understand and master by utilizing a simple four step method that focuses only on the information necessary for learning the skill It has been class tested on hundreds of students KEY TOPICS Hundreds of practice problems are included that incorporate realistic patient scenarios protocols and the latest trends in treatment management A worked out answer section clearly shows the step by step process of problem solving Topics include Calculating the Desired Dose Calculating the Concentration Calculating the cc s Calculating the Drip Rate A Final Review Section tests comprehension MARKET Paramedics nurses students and any other healthcare professional who administers medication **Instructor's Manual and Testbank to Accompany "Calculation of Drug Dosages"** Sheila J. Ogden, 2003-05 **Calculating Drug Dosage**, 1999 Drug Dosages and Solutions Mary Ann Fravel Norville, 1994 This guide presents dosage and solutions in a clear concise manner using a simplified format that is designed to off set the maths phobia and to facilitate learning and safe practice in the administration of medications One formula is used to calculate all dosage problems This edition is updated to include all new drugs on the market It is intended for nursing instructors and students practising nurses and emergency medical technicians *Calculating Drug Dosages* Sandra Luz Martinez de Castillo, 2012 **Dosage Calculation for Nursing Students: Strategies for Quick Drug Dosage Calculation 2022 Edition** Karish Kb AY, 2021-09-13 Dosage Calculation For Nursing Students Strategies For Quick Drug Dosage Calculation 2022 Edition Diagnostic quiz to identify your strengths and weaknesses so you can focus your review Practice problems for oral IV and parenteral medication administration Dosage calculation practice using dimensional analysis ratio proportion and formula methods Easy to follow examples and step by step explanations Chapter quizzes with detailed answer keys for immediate feedback Calculation space throughout to work the practice problems How to Calculate Drug Dosage Angela R. Pecherer, Suzanne L. Vertuno, 1978-11-01 **Drug Dosages and Solutions** Mary Ann Fravel Norville, 1988-01-01 **Calculation of Drug Dosages** Ruth K. Radcliff, 1990-10 **Drug Dosages and Solutions Workbook** Mary Ann Fravel Norville, 1982 *The Arithmetic of Drug Dosage* E. J. Hull, B. J. Isaacs, S. N. Marson, 1972

## Unveiling the Magic of Words: A Report on "**Drug Dosage Gizmo Answer Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Drug Dosage Gizmo Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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