

Mathematics For Wastewater Operators

The understanding of the mathematics of wastewater treatment is an important tool for all wastewater system operators. This chapter covers most of the major categories of math calculations that are important to know for both certification and daily operations of wastewater systems. The examples range from basic problems like flows, velocities and detention times, that might appear on a Grade 1 or 2 exam, to more complex problems that could be found on a Grade 3 or 4 exam. The advanced levels will also have more problems related to wastewater treatment processes like F:M ratios and MCRT problems.

FLOW

The amount of water moving through the system can be measured in one of three different units. They are gpm (gallons per minute), mgd (millions of gallons per day), and cfs (cubic feet per second). The conversions are listed below.

$$\begin{array}{ll} \text{mgd} \times 700 = \text{gpm} & \frac{\text{gpm}}{700} = \text{mgd} \\ \text{cfs} \times 449 = \text{gpm} & \frac{\text{gpm}}{449} = \text{cfs} \end{array}$$

Examples:

1. A system averages 2.0 mgd. How many gallons per minute is the daily average?

A. Convert mgd to gpm
 $2.0 \text{ mgd} \times 700 = \mathbf{1400 \text{ gpm}}$

2. A pipeline has a carrying capacity of 3 cfs. What is the flow in gpm?

A. Convert cfs to gpm
 $3 \text{ cfs} \times 449 = \mathbf{1347 \text{ gpm}}$

3. A lift station pumps 350 gpm. How many mgd will it pump?

A. Convert gpm to mgd
 $\frac{350 \text{ gpm}}{700} = \mathbf{0.5 \text{ mgd}}$

AREAS

In order to calculate volumes of circular tanks and velocities in pipes, the area of the circle must first be determined. There are two basic formulae used to calculate the area of a circle.

$$\begin{array}{ll} \text{Area} = 3.1416 \times r^2 & \text{Area} = d^2 \times 0.785 \\ r = \text{radius} & d = \text{diameter} \end{array}$$

Examples:

1. A sedimentation basin is 60 feet in diameter. What is the surface area of the tank?

A. Calculate the area
 $3.1416 \times 30' \times 30' = \mathbf{2830 \text{ square feet}}$
 $60' \times 60' \times 0.785 = \mathbf{2830 \text{ square feet}}$

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John Giorgi



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Resources in Education, 1984 **Wastewater Operator Examinations**, 1992 **Wastewater Treatment Plant Operations Made Easy** Frank R. Spellman, Joanne Drinan, 2003 This book gives plant operators and students of wastewater a simple and math based introduction to all major unit processes in the modern wastewater treatment plant The work is designed for operators and managers to run plants and to advance their careers by passing state licensure exams

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Table of Contents Wastewater Math Study Guide With Answers

1. Understanding the eBook Wastewater Math Study Guide With Answers
 - The Rise of Digital Reading Wastewater Math Study Guide With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Wastewater Math Study Guide With Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wastewater Math Study Guide With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wastewater Math Study Guide With Answers
 - Personalized Recommendations
 - Wastewater Math Study Guide With Answers User Reviews and Ratings
 - Wastewater Math Study Guide With Answers and Bestseller Lists

5. Accessing Wastewater Math Study Guide With Answers Free and Paid eBooks
 - Wastewater Math Study Guide With Answers Public Domain eBooks
 - Wastewater Math Study Guide With Answers eBook Subscription Services
 - Wastewater Math Study Guide With Answers Budget-Friendly Options
6. Navigating Wastewater Math Study Guide With Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Wastewater Math Study Guide With Answers Compatibility with Devices
 - Wastewater Math Study Guide With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wastewater Math Study Guide With Answers
 - Highlighting and Note-Taking Wastewater Math Study Guide With Answers
 - Interactive Elements Wastewater Math Study Guide With Answers
8. Staying Engaged with Wastewater Math Study Guide With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wastewater Math Study Guide With Answers
9. Balancing eBooks and Physical Books Wastewater Math Study Guide With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wastewater Math Study Guide With Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Wastewater Math Study Guide With Answers
 - Setting Reading Goals Wastewater Math Study Guide With Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wastewater Math Study Guide With Answers
 - Fact-Checking eBook Content of Wastewater Math Study Guide With Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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