

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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Spellman's Standard Handbook for Wastewater Operators (Frank R. Spellman, 2010-08-30) Compact and practical. Spellman's Standard Handbook for Wastewater Operators Volume III Advanced Level Second Edition rounds out the revision of this three-volume set. Together these three volumes prepare operators to obtain licensure and operate wastewater treatment plants properly. This volume presents applied math and chemistry by way of real-world examples.

Resources in Education
Wastewater Operator Examinations, 1994
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 *Wastewater Operator Certification Exam Prep* Awwa, 2020-12 Pass your wastewater certification exam the first time This study guide is specially developed to give wastewater operators practice answering questions that are similar in format and content to the questions that appear on certification exams Sample questions are provided for grades 1 2 3 and 4 wastewater operator certification exams so you can study the questions that are specific to your grade level Answers and references are included for questions Math questions include the method to solve AWWA s most popular operator training aid this study guide is specially designed to give water operators and students practice in answering questions that are similar in format and content to the questions that appear on state certification exams Sample questions and answers for both wastewater treatment and collections systems are included Resources in Education ,1995 **Subject Guide to Books in Print** ,1993 **Wastewater Operator Certification Study Guide** John Giorgi, 2009 Wastewater treatment operators can study all the areas covered in Grades One Four wastewater operator certification exams with this essential guide The questions are similar to actual questions in the exams and provided answers ensure a thorough study resource **Monthly Catalogue, United States Public Documents** ,1995 **EPA-430/1** ,1979-05

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web check your understanding 9 1 the time for 1 00 c of charge to flow would be $\Delta t \Delta q i 1 00c 0 300 10 3c s 3 33 103s \Delta t \Delta q i 1 00 c 0 300 10 3 c s 3 33 10 3 s$ slightly less than an hour this is quite different from the 5 55 ms for the truck battery the calculator takes a very small amount of energy to

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