

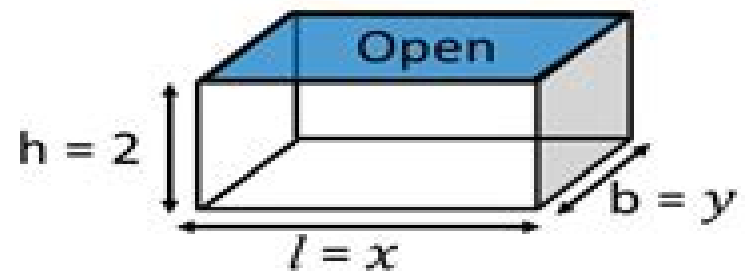
Misc 6

A tank with rectangular base and rectangular sides, open at the top is to be constructed so that its depth is 2 m and volume is 8 m^3 . If building of tank costs Rs 70 per sq. meters for the base and Rs 45 per square meter for sides. What is the cost of least expensive tank?

Given

Depth of tank = $h = 2 \text{ m}$

& Volume of tank = $V = 8 \text{ m}^3$



Let **Length** of Tank = $x \text{ m}$

Breadth of Tank = $y \text{ m}$



We know that

Volume of tank = Length $\times$ Breadth $\times$ Height

A Tank With A Rectangular Base Measuring 1

John Bird



A Tank With A Rectangular Base Measuring 1:

Measurement and Instrumentation Alan S. Morris, Reza Langari, 2011-09-12 Measurement and Instrumentation introduces undergraduate engineering students to the measurement principles and the range of sensors and instruments that are used for measuring physical variables Based on Morris's Measurement and Instrumentation Principles this brand new text has been fully updated with coverage of the latest developments in such measurement technologies as smart sensors intelligent instruments microensors digital recorders and displays and interfaces Clearly and comprehensively written this textbook provides students with the knowledge and tools including examples in LABVIEW to design and build measurement systems for virtually any engineering application The text features chapters on data acquisition and signal processing with LabVIEW from Dr Reza Langari Professor of Mechanical Engineering at Texas A M University Early coverage of measurement system design provides students with a better framework for understanding the importance of studying measurement and instrumentation Includes significant material on data acquisition coverage of sampling theory and linkage to acquisition processing software providing students with a more modern approach to the subject matter in line with actual data acquisition and instrumentation techniques now used in industry Extensive coverage of uncertainty inaccuracy aids students ability to determine the precision of instruments Integrated use of LabVIEW examples and problems enhances students ability to understand and retain content Paractical Geometry Based on the Various Geometry Books by Godfrey and Siddons , **Engineering Mathematics, 7th ed** John Bird, 2014-04-16 A practical introduction to the core mathematics required for engineering study and practice Now in its seventh edition Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams John Bird's approach is based on worked examples and interactive problems This makes it ideal for students from a wide range of academic backgrounds as the student can work through the material at their own pace Mathematical theories are explained in a straightforward manner being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice The extensive and thorough topic coverage makes this an ideal text for a range of Level 2 and 3 engineering courses This title is supported by a companion website with resources for both students and lecturers including lists of essential formulae multiple choice tests full solutions for all 1 800 further questions contained within the practice exercises and biographical information on the 24 famous mathematicians and engineers referenced throughout the book The companion website for this title can be accessed from www.routledge.com/cw/bird Xam idea Mathematics Complete Course Book | Class 8 | Includes CBSE Question Bank and NCERT Exemplar (Solved) | NEP | Examination 2023-2024 Xamidea Editorial Board, **A New Arithmetic** A W Siddons, K S Snell, E H Lockwood, 1956-01-01 **Mathematics Action 6b Tbk Em1/2** Swee Fong Ng, 2005 *Geotechnical Engineering in the Digital and Technological Innovation Era* Alessio Ferrari, Marco Rosone, Maurizio Ziccarelli, Guido Gottardi, 2023-06-16 The book collects the keynote contributions and the

papers presented at the 8th Italian Conference of Researchers in Geotechnical Engineering 2023 CNRIG 23 The conference was held on July 5-7 2023 at the University of Palermo Italy and it was organized under the auspices of the National Group of Geotechnical Engineering GNIG The event has been organized to promote interaction among geotechnical engineering and applied sciences with special focus on technological and digital innovations The book covers a wide range of classical and emerging topics in geotechnics including innovation in laboratory testing and in situ monitoring thermo hydro chemo mechanical behavior of geo materials computational geomechanics analyses of instability processes in seismic conditions probabilistic approaches resilience of critical infrastructures and advances in risk mitigation strategies and eco friendly solutions for soils and rocks stabilization This book is intended for postgraduate students researchers and practitioners working on geotechnical engineering and related areas

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