

Total Surface Area of a Triangular Pyramid

Problem:

A triangular pyramid has a base with sides measuring 6 cm, 8 cm, and 10 cm. If the slant height is 12 cm, what is its total surface area?

Solution:

The lateral surface area of a triangular pyramid

$$= \frac{1}{2} \times (\text{Perimeter} \times \text{Slant Height})$$

$$\text{The perimeter} = (6 + 8 + 10) \text{ cm} = 24 \text{ cm}$$

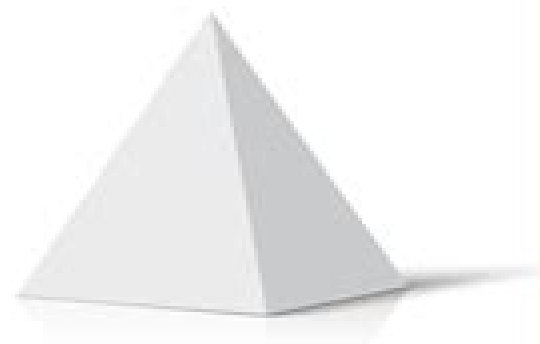
$$\begin{aligned} \text{So the lateral surface area} &= \frac{1}{2} \times (24 \times 12) \text{ sq. cm.} \\ &= 144 \text{ sq. cm.} \end{aligned}$$

$$\text{Now the base area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$\text{Here, } s = (6+8+10)/2 = 12 \text{ cm}$$

$$\text{So the base area} = \sqrt{12(12-6)(12-8)(12-10)} \text{ sq. cm.} = 24 \text{ sq. cm.}$$

$$\begin{aligned} \text{Therefore, the total area} &= \text{Lateral area} + \text{Base area} \\ &= 144 \text{ sq. cm.} + 24 \text{ sq. cm.} \\ &= 168 \text{ sq. cm.} \end{aligned}$$



Answer Key For Triangular Pyramid Surface Area

Katie Kee Daughtrey

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

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Math, Grade 6 Katie Kee Daughtrey, 2016-01-04 Interactive Notebooks Math for grade 6 is a fun way to teach and reinforce effective note taking for students Students become a part of the learning process with activities about absolute value ratios evaluating expressions one variable equations and inequalities surface area and more This book is an essential resource that will guide you through setting up creating and maintaining interactive notebooks for skill retention in the classroom High interest and hands on interactive notebooks effectively engage students in learning new concepts Students are encouraged to personalize interactive notebooks to fit their specific learning needs by creating fun colorful pages for each topic With this note taking process students will learn organization color coding summarizing and other important skills while creating personalized portfolios of their individual learning that they can reference throughout the year Spanning grades kindergarten to grade 8 the Interactive Notebooks series focuses on grade specific math language arts or science skills Aligned to meet current state standards every 96 page book in this series offers lesson plans to keep the process focused Reproducibles are included to create notebook pages on a variety of topics making this series a fun one of a kind learning experience *Mensuration. [With] Answers* Mensuration, 1892 Simple Steps for Sixth Grade, 2015-12-14 Simple Steps for Sixth Grade helps your child master math and language arts skills such as fractions decimals ratios percents integers expressions equations geometry statistics grammar punctuation capitalization usage and sentence structure A standards based resource that simplifies key concepts for easy understanding Simple Steps for Sixth Grade provides learners with easy to follow units clear explanations skill reinforcing activities and an answer key to check accuracy By preparing students for today's rigorous academic standards this comprehensive resource is ideal for supporting classroom learning and enhancing home school curriculum A unique workbook series that offers step by step guidance Simple Steps breaks down essential concepts so that learners can develop a deep understanding of both math and ELA skills for improved academic performance With Simple Steps for Sixth Grade your child is one step closer to complete school success **Mensuration for beginners [With] Answers** William Dodds, 1883 *Basic Geometry, Grades 6 - 8* Mark Twain Media, 2011-01-03 Make math matter to students in grades 5 and up using Basic Geometry This 128 page book leads students from points and lines to angles two dimensional shapes and three dimensional space figures All of the included concepts are teacher tested and illustrated with easy to understand diagrams and patterns for three dimensional figures Students construct these foldable models Aligned to the Common Core State Standards and NCTM standards national and Canadian provincial standards Key to Milne's Plane and Solid Geometry William James Milne, 1899 **Basic Geometry, Grades 6 - 8**, 2011-04-18 Make math matter to students in grades 5 and up using Basic Geometry This 128 page book leads students from points and lines to angles two dimensional shapes and three dimensional space figures All of the included concepts are teacher tested and illustrated with easy to understand diagrams and patterns for three dimensional figures Students construct these

foldable models The book supports NCTM standards and aligns with state national and Canadian provincial standards

Pitman's commercial arithmetic. [With] Answers Isaac Pitman & Sons,sir Isaac Pitman (and sons; ltd.),1898

Spectrum Test Prep, Grade 6 Spectrum,2015-01-05 Spectrum Test Prep Grade 6 includes strategy based activities for language arts and math test tips to help answer questions and critical thinking and reasoning The Spectrum Test Prep series for grades 1 to 8 was developed by experts in education and was created to help students improve and strengthen their test taking skills The activities in each book not only feature essential practice in reading math and language arts test areas but also prepare students to take standardized tests Students learn how to follow directions understand different test formats use effective strategies to avoid common mistakes and budget their time wisely Step by step solutions in the answer key are included These comprehensive workbooks are an excellent resource for developing skills for assessment success Spectrum the best selling workbook series is proud to provide quality educational materials that support your students learning achievement and success

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Table of Contents Answer Key For Triangular Pyramid Surface Area

1. Understanding the eBook Answer Key For Triangular Pyramid Surface Area
 - The Rise of Digital Reading Answer Key For Triangular Pyramid Surface Area
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key For Triangular Pyramid Surface Area
 - 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 Answer Key For Triangular Pyramid Surface Area
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key For Triangular Pyramid Surface Area
 - Personalized Recommendations
 - Answer Key For Triangular Pyramid Surface Area User Reviews and Ratings
 - Answer Key For Triangular Pyramid Surface Area and Bestseller Lists
5. Accessing Answer Key For Triangular Pyramid Surface Area Free and Paid eBooks
 - Answer Key For Triangular Pyramid Surface Area Public Domain eBooks
 - Answer Key For Triangular Pyramid Surface Area eBook Subscription Services
 - Answer Key For Triangular Pyramid Surface Area Budget-Friendly Options

6. Navigating Answer Key For Triangular Pyramid Surface Area eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key For Triangular Pyramid Surface Area Compatibility with Devices
 - Answer Key For Triangular Pyramid Surface Area Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key For Triangular Pyramid Surface Area
 - Highlighting and Note-Taking Answer Key For Triangular Pyramid Surface Area
 - Interactive Elements Answer Key For Triangular Pyramid Surface Area
8. Staying Engaged with Answer Key For Triangular Pyramid Surface Area
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key For Triangular Pyramid Surface Area
9. Balancing eBooks and Physical Books Answer Key For Triangular Pyramid Surface Area
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key For Triangular Pyramid Surface Area
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key For Triangular Pyramid Surface Area
 - Setting Reading Goals Answer Key For Triangular Pyramid Surface Area
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key For Triangular Pyramid Surface Area
 - Fact-Checking eBook Content of Answer Key For Triangular Pyramid Surface Area
 - 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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