

# CONCEPTUAL *Physics* PRACTICE PAGE

## Chapter 12 Solids

### Scaling

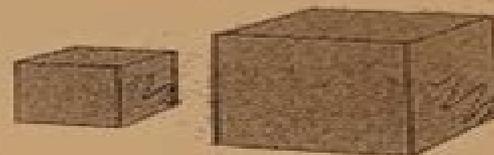
1. Consider a cube  $1\text{ cm} \times 1\text{ cm} \times 1\text{ cm}$  (a very small sugar cube). Its volume is  $1\text{ cm}^3$ . The surface area of one of its faces is  $1\text{ cm}^2$ . The total surface area of the cube is  $6\text{ cm}^2$  because it has 6 sides. Now consider a second cube, scaled up by a factor of 2 so it is  $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$ .

a. What is the total surface area of each cube?

1<sup>st</sup> cube \_\_\_\_\_  $\text{cm}^2$ ; 2<sup>nd</sup> cube \_\_\_\_\_  $\text{cm}^2$

b. What is the volume of each cube?

1<sup>st</sup> cube \_\_\_\_\_  $\text{cm}^3$ ; 2<sup>nd</sup> cube \_\_\_\_\_  $\text{cm}^3$



c. Compare the ratio of surface area to volume for each cube.

1<sup>st</sup> cube of  $\frac{\text{surface area}}{\text{volume}} =$  \_\_\_\_\_; 2<sup>nd</sup> cube of  $\frac{\text{surface area}}{\text{volume}} =$  \_\_\_\_\_

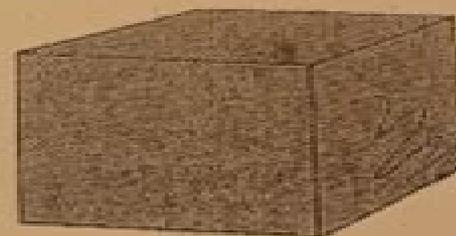
2. Now consider a third cube, scaled up by a factor of 3 so it is  $3\text{ cm} \times 3\text{ cm} \times 3\text{ cm}$ .

a. What is its total surface area? \_\_\_\_\_  $\text{cm}^2$

b. What is its volume? \_\_\_\_\_  $\text{cm}^3$

c. What is its ratio of surface area to volume?

$\frac{\text{surface area}}{\text{volume}} =$  \_\_\_\_\_



3. When the size of a cube is scaled up by a certain factor (2 and then 3 for the above examples), the area increases as the \_\_\_\_\_ of the factor, and the volume increases as the \_\_\_\_\_ of the factor.

4. Does the ratio of surface area to volume increase or decrease as things are scaled up?

5. Does the rule for the scaling up of cubes also apply to other shapes? \_\_\_\_\_  
Would your answers have been different if we started with a sphere of diameter 1 cm and scaled it up to a sphere of diameter 2 cm, and then 3 cm? \_\_\_\_\_

6. The effects of scaling are beneficial to some creatures and detrimental to others. Check either (B) for beneficial or (D) for detrimental for each of the following:

- |  |  |
|--|--|
| a. an insect falling from a tree _____               | d. a big fish chasing a small fish _____   |
| b. an elephant falling from the same tree _____      | e. a hungry mouse _____                    |
| c. a small fish trying to flee from a big fish _____ | f. an insect that falls in the water _____ |

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**Iron and Steel Institute**



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**The Practice of Pharmacy ...** Joseph Price Remington, 1965

**Northwest Journal of Education**, 1896 **University of Michigan Official Publication** University of Michigan, 1980

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### **Table of Contents Conceptual Physics Practice Page Answers Solids**

1. Understanding the eBook Conceptual Physics Practice Page Answers Solids
  - The Rise of Digital Reading Conceptual Physics Practice Page Answers Solids
  - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Practice Page Answers Solids
  - 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 Conceptual Physics Practice Page Answers Solids
  - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Practice Page Answers Solids
  - Personalized Recommendations
  - Conceptual Physics Practice Page Answers Solids User Reviews and Ratings
  - Conceptual Physics Practice Page Answers Solids and Bestseller Lists

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