

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 cm^3 . The surface area of one of its faces is 1 cm^2 . The total surface area of the cube is 6 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?

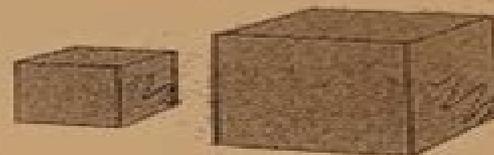
1st cube _____ cm^2 ; 2nd cube _____ cm^2

b. What is the volume of each cube?

1st cube _____ cm^3 ; 2nd cube _____ cm^3

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

1st cube of $\frac{\text{surface area}}{\text{volume}} = \frac{\quad}{\quad}$; 2nd cube of $\frac{\text{surface area}}{\text{volume}} = \frac{\quad}{\quad}$



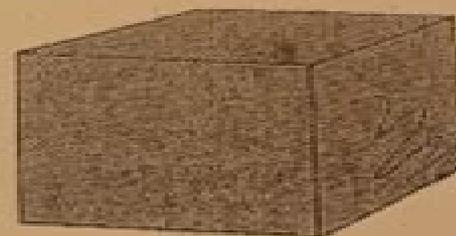
2. Now consider a third cube, scaled up by a factor of 3 so it is $3\text{ cm} \times 3\text{ cm} \times 3\text{ cm}$.

a. What is its total surface area? _____ cm^2

b. What is its volume? _____ cm^3

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

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



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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Cornell University



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