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Word Problem Practice

The area of a square is calculated by the formula A = s2. The volume of a cube is calculated by the formula V = s3. One side of a cubic box measures 3.5 feet long. What is the area of one side? What is the volume of the box? Show your work.

A window washer is responsible for washing all the windows on one side of a building. The building is 8 stories tall, and each floor has 8 windows across. Each window is divided into smaller panes, 8 panes high and 8 panes across. Represent the total number of panes he will wash using exponents. (Hint: Draw a picture to figure it out). How many total panes must he wash?

Speedy McQuickster drove 672.98 miles in 9.65 hours. What was his average speed in miles per hour for the trip?