

RATIONAL EQUATIONS AND FUNCTIONS

► *How do scale models fit into the design process?*



CHAPTER

11

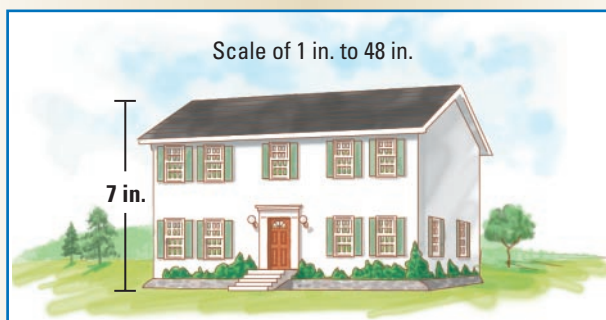
APPLICATION: Scale Models

An architectural scale model is a smaller, three-dimensional representation of a structure. Models can be built for a single building or an entire city. Architects, builders, and city planners use them.

The dimensions of a scale model are determined by solving a proportion. In Chapter 11 you'll learn ways to solve proportions and other rational equations.

Think & Discuss

Use the drawing of a scale model for Exercises 1–2.



1. Solve the equation $\frac{7}{1} = \frac{x}{48}$ to find the height x of the actual house. Write your answer in feet.
2. A shutter on the house is 1 foot wide. How wide is it on the model? Write your answer in inches.

Learn More About It

You will write and use a proportion for a problem about a scale model in Exercise 43 on page 647.



APPLICATION LINK Visit www.mcdougallittell.com for more information about scale models.

