

# Mathematical

# Reflections

# 5

**I**n this investigation, you learned how changing the dimensions of a rectangular box affects its volume and surface area. These questions will help you summarize what you have learned.

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Think about your answers to these questions. Discuss your ideas with other students and your teacher. Then write a summary of your findings in your notebook.

1. Suppose you want to build a rectangular box with eight times the volume of a given rectangular box. How can you determine the possible dimensions for the new box? Are the two boxes similar? Explain.
2. Describe how the volume and surface area of a rectangular prism change as each of its dimensions is doubled, tripled, quadrupled, and so on.