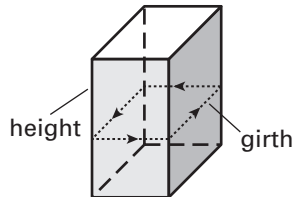


Real-World Problem Solving

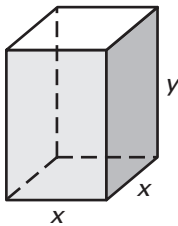
For use with pages 436–441

Mailing a Package

When mailing a package, the U.S. Postal Service requires that the height of a package combined with the girth, or the distance around the package, cannot be greater than 108 inches.



Consider the package below. It has a square base with side length x and height y .



In Exercises 1–6, use the information above.

1. Write an inequality that represents the situation above.
2. Graph the inequality.
3. What heights can a package with a side length of 20 inches be?
4. What side lengths can a package with a height of 40 inches be?
5. What is the longest height of a package that can be mailed if the package has a side length of 23 inches?
6. What is the longest side length of a package that can be mailed if the package has a height of 52 inches?