# Solving Quadratics

*The length of a rectangle is 2 feet greater than the width, and the area is 18 square feet. Find the width of the rectangle.*

Can you solve it? Why not?

1. Identify the variables (the unknown quantities)
2. Write mathematical expressions for the length and area of the rectangle
3. Substitute the algebraic expression for length into the equation for area
4. Solve the resulting equation if possible.