Module 13 Solving Quadratic Equations
of One Variable
Lesson 6 Solving Problems Using Quadratic
Equations of One Variable

**guided
notes**

Lesson Objectives

• To solve problems using quadratic equations of one variable.

The formula for the area of a rectangle is A = ___*lw*___.

1▸ The area of a floor is 96 square feet. The width of the floor is 12 feet less than

three times the length. What are the dimensions of the floor?

length = 8 feet; width = 12 feet

2▸ The height, in feet, of a ball thrown upwards from a point 100 feet above the

ground is given by the equation $h = -16t^2 + 5t + 100$, where t is the time in

seconds. How many seconds will have elapsed when the ball is 50 feet above

the ground?

approximately 1.93 seconds