

Name: _____

Date: _____

UNIT 3 • MODELING AND ANALYZING QUADRATIC FUNCTIONS

Lesson 1: Creating and Solving Quadratic Equations in One Variable

Problem-Based Task 3.1.4: Window Installation

A construction company is installing a rectangular pane of stained glass at a local museum. The expression $54x^2 + 69x + 20$ represents the area of the window in square inches, and the expression $6x + 5$ represents the width of the window in inches. If the window has a height of 94 inches, what are the actual width and area of the window? Recall that the area of a rectangle is equal to its width times its length (in this case, the height of the window).

SMP

1 ✓	2 ✓
3	4 ✓
5	6
7 ✓	8

