UNIT 4 • MODELING AND ANALYZING EXPONENTIAL FUNCTIONS Lesson 1: Creating Exponential Equations

Lesson 4.1.2: Creating and Graphing Exponential Equations in Two Variables Warm-Up 4.1.2

Read the scenario and answer the questions that follow.

One form of the element beryllium, beryllium-11, has a half-life of about 14 seconds and decays to the element boron. A chemist starts out with 128 grams of beryllium-11. She monitors the element for 70 seconds.

1. What is the equation that models the amount of beryllium-11 over time?

2. How many grams of beryllium-11 does the chemist have left after 70 seconds?