

NAME: \_\_\_\_\_

## **UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES**

### **Lesson 3: Creating and Graphing Equations in Two Variables**

#### **Problem-Based Task 1.3.1: Phone Card Fine Print**

Write and graph the equation that models the following scenario.

You can buy a 6-hour phone card for \$5, but the fine print says that each minute you talk actually costs you 1.5 minutes of time. What is the equation that models the number of minutes left on the card compared with the number of minutes you actually talked? What is the graph of this equation?

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##### Coaching

- a. What are the slope and the  $y$ -intercept?
  
  
  
  
  
  
  
  
  
  
- b. What is the equation of the line?
  
  
  
  
  
  
  
  
  
  
- c. What are the labels of the  $x$ - and  $y$ -axes?
  
  
  
  
  
  
  
  
  
  
- d. What are the scales of the  $x$ - and  $y$ -axes?
  
  
  
  
  
  
  
  
  
  
- e. Which point do you plot first?
  
  
  
  
  
  
  
  
  
  
- f. How can you use the equation to plot the second point?