

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

## **UNIT 3 • LINEAR AND EXPONENTIAL FUNCTIONS**

### **Lesson 9: Interpreting Parameters**

#### **Problem-Based Task 3.9.1: Cell Phone Plans**

You are comparing cell phone providers in order to determine which one offers the best deal. AT&Me offers a plan with a monthly fee of \$25, plus a \$0.10 per minute charge. Tracmyphone offers a plan with a monthly fee of \$15, with a \$0.15 per minute charge. You typically use less than 100 minutes per month. Which plan would be the best choice for you and why?

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#### Problem-Based Task 3.9.1: Cell Phone Plans

##### Coaching

- a. What kind of function is described in this scenario?
  
  
  
  
  
  
  
  
  
  
- b. What are the parameters?
  
  
  
  
  
  
  
  
  
  
- c. Write the function for each plan.
  
  
  
  
  
  
  
  
  
  
- d. Graph the two functions.
  
  
  
  
  
  
  
  
  
  
- e. If you use less than 100 minutes per month, what should the scale on your  $x$ -axis be?
  
  
  
  
  
  
  
  
  
  
- f. By looking at the graph, how can you determine which plan to select?
  
  
  
  
  
  
  
  
  
  
- g. Which plan is the best deal if you use less than 100 minutes a month?