

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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## UNIT 4 • MODELING AND ANALYZING EXPONENTIAL FUNCTIONS

### Lesson 1: Creating Exponential Equations

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#### Lesson 4.1.1: Creating Exponential Equations in One Variable

##### Warm-Up 4.1.1

This year, Zachary has been babysitting his young cousins after school for \$70 a month. His uncle also gave him an extra bonus of \$100 for his excellent work. Since school started, Zachary has earned more than \$500. How many months ago did school start? Write and solve an inequality that represents this situation.