

guided notes

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 4** Solving Problems Using Linear Equations of One Variable  
**Lesson 4** Solving Mixture and Rate Problems Using Equations of One Variable

**Lesson Objective**  
• Write and solve equations of one variable to solve mixture and rate problems.

**1** Rick has \$3.85 cents in nickels and dimes. The number of nickels is 3 less than twice the number of dimes. How many of each type of coin does Rick have?  
\_\_\_\_\_  
\_\_\_\_\_

**2** Dr. Gonzales needs a 40% acid solution. She has 50 mL of a 50% acid solution. How much of a 25% acid solution should she add to the 50% solution to make a 40% solution? \_\_\_\_\_  
\_\_\_\_\_

When solving a distance problem, \_\_\_\_\_  
before you write your equation can help you visualize what is happening.  
Distance equals \_\_\_\_\_ times \_\_\_\_\_.

**3** Josh raced his brother Joel to determine who would do the dishes this week. Joel biked at a constant rate of 704 ft/min. Josh gave Joel a 3 minute head start, and then biked at a constant rate of 880 ft/min. How many minutes after Joel started biking did Josh catch up with Joel? \_\_\_\_\_  
\_\_\_\_\_

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