

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

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

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## UNIT 2 • REASONING WITH LINEAR EQUATIONS AND INEQUALITIES

### Lesson 1: Creating Linear Equations and Inequalities in One Variable

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#### Problem-Based Task 2.1.1: Rafting and Hiking Trip

##### Coaching

- a. If the rafting trip covers a distance of 60 miles and you are expected to raft 8 hours each day, how many miles must you raft each hour?

What is the ratio of miles to days?

What is the ratio you are looking for?

What is the ratio of days to hours spent rafting?

How do you convert the original ratio of miles to days into miles per hour?

- b. How many miles will your group be hiking?

What is the equation of the cost of hiring 1 assistant?

What is the solution to this equation?

- c. Is it worth hiring two assistants to help you and your friends carry the equipment?

How much weight will each of you carry without assistants?

How much weight will each of you carry with 2 assistants?

What is the difference in the cost per day?

Are you willing to pay more money to have someone carry your equipment?