

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

## UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES

### Lesson 5: Rearranging Formulas

#### Problem-Based Task 1.5.1: Bricklayers

The formula  $N = 7LH$  is used to determine  $N$ , the number of bricks needed to build a wall that is  $L$  feet in length and  $H$  feet high. A customer would like a wall constructed that is 4 feet high. If the bricklayer wants to use all of the 1,820 bricks that he has readily available, how long will the wall be?

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- What does each of the variables represent?
- What variable is the given formula solved for?
- Which variable does the formula need to be solved for?
- Solve the given formula for the unknown variable.
- What values are given in the problem statement?
- How long can the wall be if the bricklayer has 1,820 bricks and the wall must be 4 feet high?