

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

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

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**UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS**

**Lesson 3: Interpreting Formulas and Expressions**

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**Problem-Based Task 1.3.2: Cabin Perimeter**

**Coaching**

a. What is an expression for  $a$  in terms of  $x$ ?

b. What is an expression for  $b$  in terms of  $x$ ?

c. Using the formula for perimeter and the expressions for  $a$  and  $b$ , write a formula for the cabin's perimeter in terms of  $x$ .

d. What is the simplified expression for the perimeter of the cabin in terms of  $x$ ?