

## UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS

## Lesson 3: Interpreting Formulas and Expressions

## Problem-Based Task 1.3.2: Cabin Perimeter

Soren has been hired to design a small cabin. He has drawn a blueprint for the cabin, as shown. His client is still determining the overall size of the cabin, but Soren has labeled the known lengths in feet. He wants to find an expression to represent the perimeter of the entire space. The perimeter of the cabin is the sum of all four sides and can be written as  $P = 2a + 2b$ . Find an expression in terms of  $x$  that shows the total perimeter.

SMP

1 ✓ 2

3 4

5 6

7 ✓ 8 ✓

