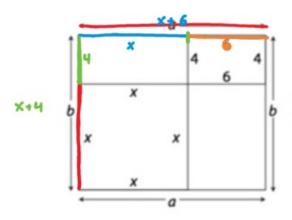perimeter = 2a + 2b. Find an expression in terms of x that shows the total perimeter.

1. What does *a* equal in terms of *x*?

$$a = (x + 6)$$

2. What does *b* equal in terms of *x*?

$$b = (x + 4)$$

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

$$2(x + 6) + 2(x + 4)$$

4. What is the simplified perimeter of the cabin in terms of *x*?

$$2x + 12 + 2x + 8$$

$$\boxed{4x + 20}$$

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