

Rectangular Recreation

Suppose you are building a fence for a garden in your yard. Your yard is 50 ft wide and has an area of 500 square ft.

Your father has 88 ft of garden fencing, so your garden has to have a perimeter of 88 feet. How big an area would you set aside for your garden?

1. Suppose you made your garden 5 feet wide.
 - a. What would its length be? _____
 - b. What would its area be? _____
 - c. What would be the area of the leftover space in the yard? _____
2. Suppose you made your garden 10 feet wide.
 - a. What would its length be? _____
 - b. What would its area be? _____
 - c. What would be the area of the leftover space in the yard? _____
3. Suppose you made your garden 15 feet wide.
 - a. What would its length be? _____
 - b. What would its area be? _____
 - c. What would be the area of the leftover space in the yard? _____
4. Suppose you made your garden 22 feet wide.
 - a. What would its length be? _____
 - b. What would its area be? _____
 - c. What would be the area of the leftover space in the yard? _____
5. About how wide would you make your garden? Explain your reasoning.

