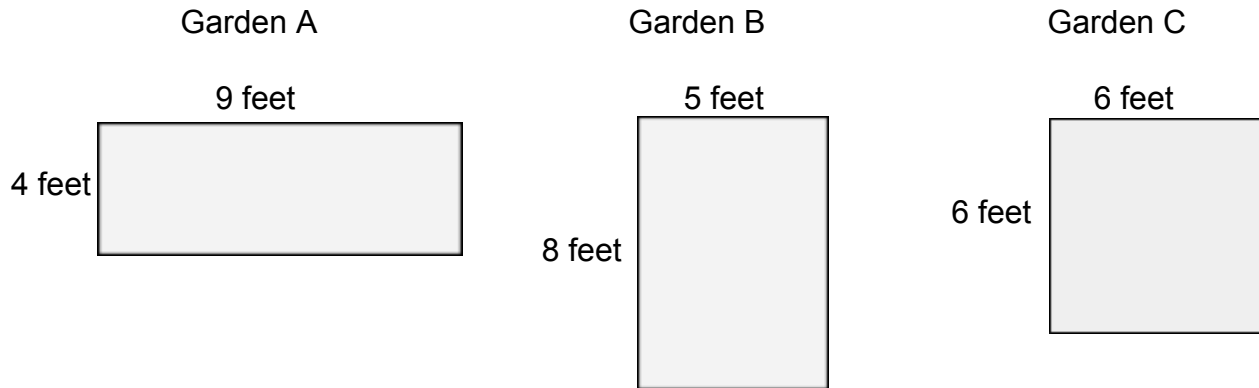


Name _____

Date _____

Building a Garden

Beth loves fresh vegetables and wants to build a small vegetable garden for her backyard. She wants to put fencing around the garden to keep animals from getting into it. **Beth made 3 different plans for her garden:**

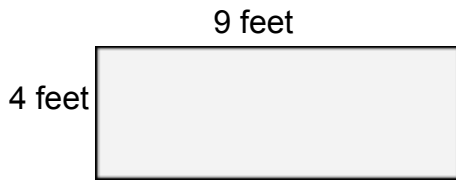


1. Beth wants to use the least amount of fence **around** her garden. Which garden plan should she use?

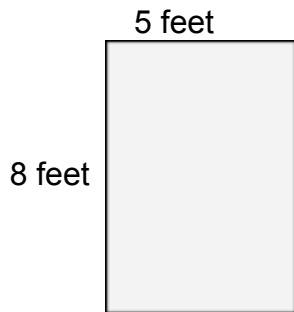
Show your work and explain how you know.

2. What is the **area** of each of the 3 gardens? Show how you figured it out with diagrams, words, and / or equations.

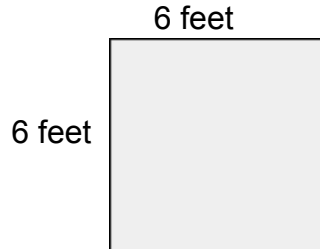
Garden A



Garden B

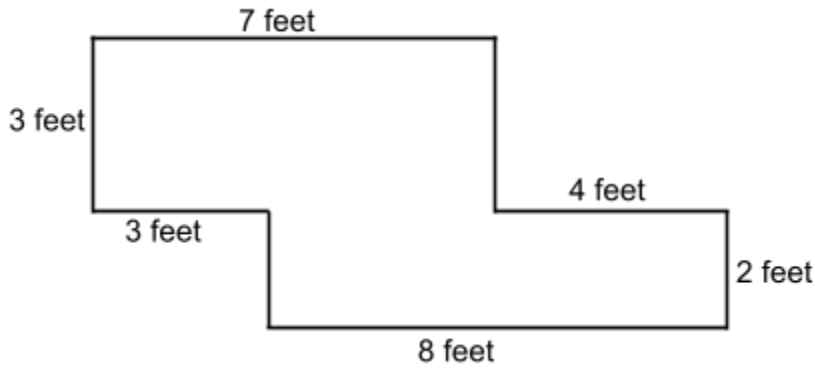


Garden C



3. Beth made one more rectangular garden plan that was 24 square feet. What could her garden plan look like? Explain how you know it is 24 square feet.

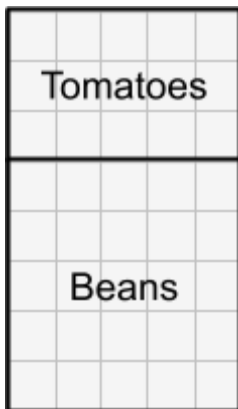
4. Beth's dad created a garden with this design:



a. How much fencing does he need to buy to go around the garden?

b. What is the area of this garden?

5. This picture shows Garden B. Beth planted tomatoes and beans in it. She calculated the area of the garden using this equation. Tell what each part of the equation shows. Is the equation correct? How do you know?



$$8 \times 5 = (3 \times 5) + (5 \times 5) = 15 + 25 = 40 \text{ square units}$$