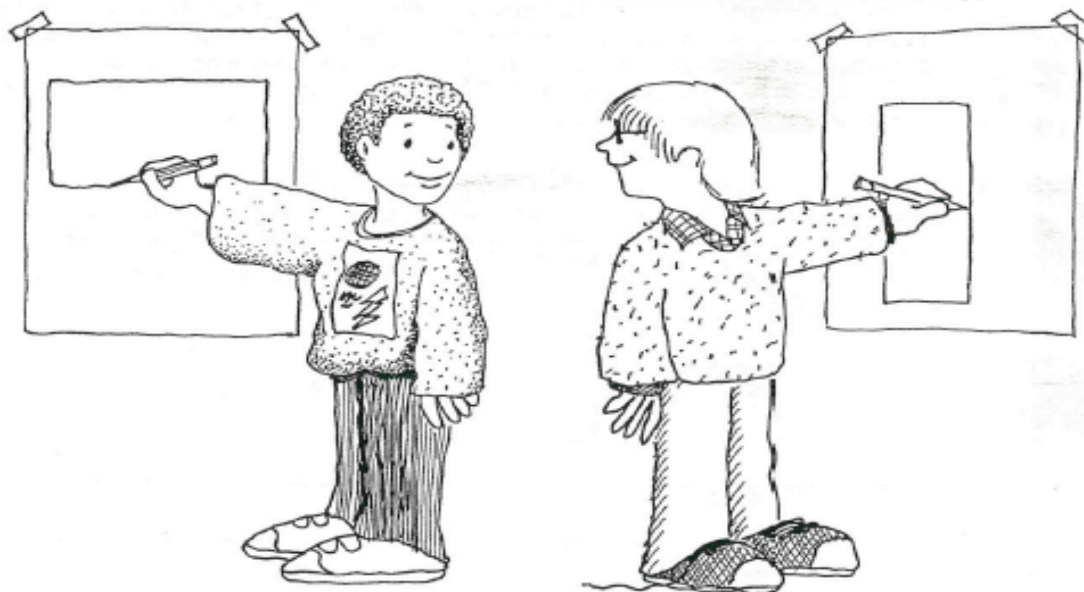


## The Rectangle Problem

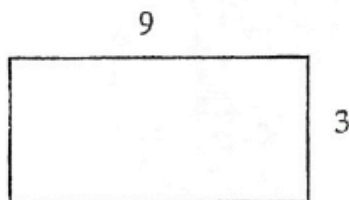
Nathan and Ray each drew a rectangle. The perimeter of both the rectangles was 144 cm. What is the greatest possible difference between the areas of the two rectangles if the dimensions are whole numbers? ~~What if the dimensions are not whole numbers?~~



1. **Problem Statement:** Your assignment is to explain this problem to someone who was absent. Rewrite and explain the problem *in your own words* as clearly as possible.
2. **Process:** Describe what you did to solve the problem. How did you get started? What did or did not work? Did you use charts, diagrams, or drawings? What was your strategy? Explain your solution and process as clearly as possible so that it will *convince another reader* that you have it correct.

Explain 1 Real life example where you might  
have to use some concept from Geometry later in  
life?

1. The rectangle below has a perimeter of 24 units and an area of 27 square units. Draw a rectangle using different dimensions that would have the same perimeter of 24 units but would have the greatest possible area. Give the area. Explain how you arrived at your answer. (2 points)



---

---

---