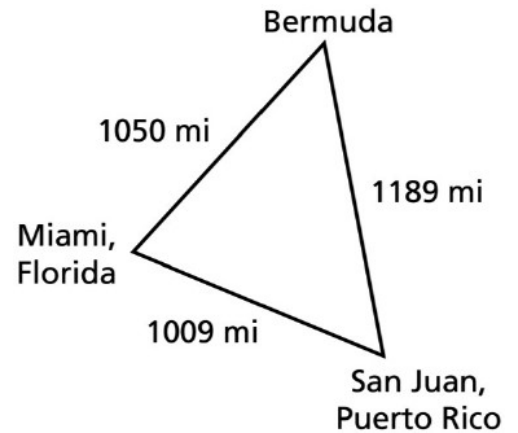# The Bermuda Triangle

The Bermuda Triangle is in the Atlantic Ocean between Bermuda, Miami, Florida, and San Juan, Puerto Rico. There are many stories about strange events that occur within the Bermuda Triangle.

Bermuda

1050 mi

1189 mi

Miami, Florida

1009 mi

San Juan, Puerto Rico

The Bermuda Triangle is not a right triangle. In order to find the area, you need to use a different method.

1.   Find the perimeter of the triangle.

2.   The semi-perimeter of a triangle is equal to half the perimeter. Find the semi-perimeter s of the triangle.

3.   Find the differences between the semi-perimeter and each side of the triangle, $s - a$, $s - b$, and $s - c$.

4.   Use the values you found to evaluate the product $R = s(s - a)(s - b)(s - c)$

5.   The area of the triangle is equal to $\sqrt{R}$. What is the area (in square miles) of the Bermuda Triangle?

6.   This method of finding the area of a triangle is called Heron's Formula. Use the method to find the area of the triangle below.

36 m

29 m

25 m