Area of an Ellipse

Practice Your Understanding

Name:	
Date: _	

1. Write down the equation for calculating the area of an ellipse below:

2. Using this formula calculate the area of an ellipse that has a a-axis radius of 4.4 m and a b-axis radius of 12.5 m. Show all work and record your answer below:

3. Given the area of an ellipse to be 1351.98 m^2 , and a b-axis radius to be 9.5 m, find the a-axis radius of the ellipse. You can use a calculator for this problem, but show all the steps you would take to solve this problem and record your answer below:

4. What is the area of an ellipse that has a a-axis radius of 4.5 m, with the b-axis radius having the same value. What would you call an ellipse of this type? Does the shape resemble something else? Show all work and record your answer below:

