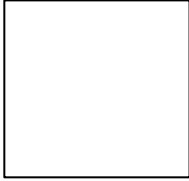

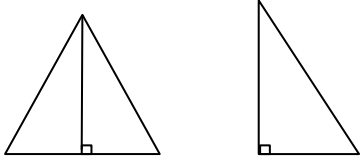
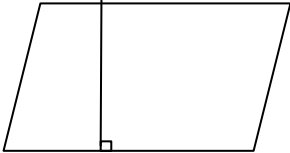
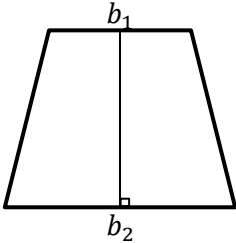
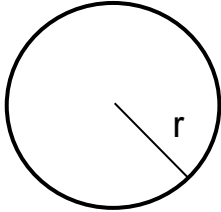


## Finland's "Forming" Land

**Prior Knowledge:** Fill in the area formula of the following shapes.

Area Formulas		
Square	Rectangle	Triangle
 $A = s^2$	 $A = b \cdot h$	 $A = \frac{b \cdot h}{2}$
Parallelogram	Trapezoid	Circle
 $A = b \cdot h$	 $A = \frac{(b_1 + b_2)}{2} \cdot h$	 $A = \pi \cdot r^2$

Inari, the country's largest municipality in Finland, covers approximately 6,690 square miles where about 880 square miles is water. Your task is to create a potential map of Inari using all the six shapes above. Be clear of the shape you are drawing by bolding each of the six shapes. You may use more than one of each shape and you may partition any of the shapes (for example, you may take half of a circle, i.e., a semi-circle, to represent the edge of the land or part of a lake). Each grid represents 100 square miles, totaling 10,000 square miles. Have fun and be creative with your math knowledge! *(Hint: do not forget about the 880 square miles of water!)*

Student Name 's Inari


Answers vary. The area covered needs to be about  $6690 - 880 = 5810$  or approximately 5800 sq. miles (58%)