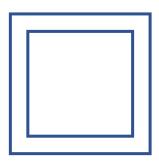
Honors Algebra 2
Geometry Word Problems

Name: _		
Date:		

Ex 1. The length of a rectangle is 4 m more than the width. The area of the rectangle is $45 m^2$. Find the length and the width.



Ex 2. A square picture is mounted in a frame 1 cm wide. The area of the picture is $\frac{2}{3}$ of the total area. Find the length of a side of the picture.



Problems to work IN YOUR JOURNAL:

- 1. The length of a rectangle is three times the width. The area is $108\ cm^2$. Find the dimensions of the rectangle.
- 2. A square field has 3 meters added to its length and 2 meters added to its width. The field then had an area of $90\ m^2$. Find the length of the original field.
- 3. The length of a rectangular park is $2 \ km$ less than twice the width. The area is $9 \ km^2$. Find the dimensions of the park.
- 4. The base of a triangle is 3 cm longer than its height (aka altitude). The area of the triangle is 35 cm^2 . Find the height (altitude).
- 5. A flower garden is in the shape of a right triangle. The longest side of the triangle measures 13 meters. One of the shorter sides is 7 meters longer than the other. Find the length of the shortest side. (Hint: Pythagorean Theorem is your friend!)
- 6. A rectangular pond measures 3 meters by 5 meters. A concrete walk of uniform width is constructed around the pond. If the walk and pond together cover an area of $39 m^2$, how wide is the walk?