

Name: _____

1. You are going to add fence around a rectangular field adjacent to a building. Thus you will need fence on just three sides of the field.

Assuming you have 100 feet of fencing available, what is the largest field you can enclose? Find the dimensions of such a field and its total area. Show all your work.

Name: _____

1. You are going to enclose a rectangular yard with fence on all four sides. On three of the sides, you will use inexpensive fence costing only \$5 per foot. On the third side you will have expensive decorative fencing costing \$20 per foot.

If you need the yard to have an area of 300 square feet, what is the least you could spend total on fencing? Find the dimensions of such a field and give the total cost for the fence. Show all your work

Name: _____

1. You are going to add fence around a rectangular field adjacent to a building. Thus you will need fence on just three sides of the field.

Assuming the field must have an area of 300 square feet, what is the least amount of fence you will need? Find the dimensions of such a field and the total amount of fence required to surround the three sides. Show all your work.

Name: _____

1. You are going to enclose a rectangular yard with fence on all four sides. On three of the sides, you will use inexpensive fence costing only \$5 per foot. On the third side you will have expensive decorative fencing costing \$20 per foot.

You have \$1000 to spend on fencing. What is the largest yard you could enclose? Find the dimensions of such a yard and the total area it would have. Show all your work.