



## Quadratic Equation Word Problem To Optimization (y) - 3-Sided Rectangle

1

What is the maximum possible area of the parking lot?

A parking lot that is a rectangle shape is enclosed by x meters of a wall on one side and 27m of fencing on the other 3 sides.

$$A = 91.125m^2 \quad B = 89.125m^2$$

$$C = 92.125m^2$$

2

What is the maximum possible area of the parking lot?

A parking lot that is a rectangle shape is enclosed by x meters of a wall on one side and 17m of fencing on the other 3 sides.

$$A = 41.125m^2 \quad B = 34.125m^2$$

$$C = 36.125m^2$$

3

What is the maximum possible area of the parking lot?

A parking lot that is a rectangle shape is enclosed by x meters of a wall on one side and 21m of fencing on the other 3 sides.

$$A = 58.125m^2 \quad B = 60.125m^2$$

$$C = 55.125m^2$$

4

What is the maximum possible area of the parking lot?

A parking lot that is a rectangle shape is enclosed by x meters of a wall on one side and 28m of fencing on the other 3 sides.

A	B
$A = 102m^2$	$A = 98m^2$

5

What is the maximum possible area of the garden?

A rectangular garden is built along x meters of a wall using a total of 25m of fencing for the other 3 sides.

$$A = 78.125m^2 \quad B = 81.125m^2$$

$$C = 79.125m^2$$

6

What is the maximum possible area of the parking lot?

A parking lot that is a rectangle shape is enclosed by x meters of a wall on one side and 20m of fencing on the other 3 sides.

$$A = 50m^2 \quad B = 48m^2$$

$$C = 49m^2$$

7

What is the maximum possible area of the garden?

A rectangular garden is built along x meters of a wall using a total of 18m of fencing for the other 3 sides.

$$A = 40.5m^2 \quad B = 42.5m^2$$

$$C = 35.5m^2$$

8

What is the maximum possible area of the parking lot?

A parking lot that is a rectangle shape is enclosed by x meters of a wall on one side and 19m of fencing on the other 3 sides.

$$A = 43.125m^2 \quad B = 45.125m^2$$

$$C = 50.125m^2$$