



## Quadratic Equation Word Problem To Expression (Standard Form $f(x)$ ) - 3-Sided Rectangle

**1** What quadratic equation, in standard form, comes from calculating the 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.

$$A(x) = 4.5x^2 + 17x$$

$$B(x) = -0.5x^2 + 16x + 4$$

$$C(x) = -0.5x^2 + 14x$$

**2** What quadratic equation, in standard form, comes from calculating the area of the garden?

A rectangular garden is built along  $x$  meters of a wall using a total of 19m of fencing for the other 3 sides.

$$A(x) = -0.5x^2 + 4.5x + 1$$

$$B(x) = 3.5x^2 + 4.5x$$

$$C(x) = -0.5x^2 + 9.5x$$

**3** What quadratic equation, in standard form, comes from calculating the area of the garden?

A rectangular garden is built along  $x$  meters of a wall using a total of 15m of fencing for the other 3 sides.

$$A(x) = -0.5x^2 + 3.5x - 5$$

$$B(x) = 2.5x^2 + 2.5x$$

$$C(x) = -0.5x^2 + 7.5x$$

**4** What quadratic equation, in standard form, comes from calculating the 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.

$$A(x) = -0.5x^2 + 13.5x$$

$$B(x) = -0.5x^2 + 9.5x + 4$$

$$C(x) = -0.5x^2 + 14.5x + 3$$

**5** What quadratic equation, in standard form, comes from calculating the 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.

$$A(x) = -0.5x^2 + 11.5x - 2$$

$$B(x) = -0.5x^2 + 9.5x$$

$$C(x) = -1.5x^2 + 9.5x$$

**6** What quadratic equation, in standard form, comes from calculating the 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 15m of fencing on the other 3 sides.

$$A(x) = -0.5x^2 + 7.5x$$

$$B(x) = 1.5x^2 + 4.5x$$

$$C(x) = -0.5x^2 + 9.5x - 2$$

**7** What quadratic equation, in standard form, comes from calculating the 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 23m of fencing on the other 3 sides.

$$A(x) = -0.5x^2 + 11.5x$$

$$B(x) = 3.5x^2 + 16.5x$$

$$C(x) = 3.5x^2 + 11.5x$$

**8** What quadratic equation, in standard form, comes from calculating the 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.

$$A(x) = -0.5x^2 + 9x$$

$$B(x) = 1.5x^2 + 4x$$

$$C(x) = -0.5x^2 + 10x$$