



Quadratic Equation Word Problem To Quadratic Solution Type - Volume from Sheet

1 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 38x + 88$$

- A The x value of the vertex B The root of the quadratic
C The y value of the vertex

2 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 38x + 90$$

- A The root of the quadratic B The y value of the vertex
C The x value of the vertex

3 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the maximum volume possible?

$$V(x) = 4x^2 + 28x + 48$$

- A The root of the quadratic B The y value of the vertex
C The x value of the vertex

4 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the maximum volume possible?

$$V(x) = 4x^2 + 22x + 28$$

- A The root of the quadratic B The x value of the vertex
C The y value of the vertex

5 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 30x + 54$$

- A The root of the quadratic B The x value of the vertex
C The y value of the vertex

6 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the x dimension that maximizes volume?

$$V(x) = 4x^2 + 36x + 81$$

- A The root of the quadratic B The x value of the vertex
C The y value of the vertex

7 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the maximum volume possible?

$$V(x) = 4x^2 + 42x + 110$$

- A The root of the quadratic B The x value of the vertex
C The y value of the vertex

8 Given this equation for the volume of a box cut from a sheet of cardboard, what would you use to find the maximum volume possible?

$$V(x) = 4x^2 + 36x + 80$$

- A The x value of the vertex B The root of the quadratic
C The y value of the vertex