What we have:

* Area formula
  + Length\*width\*height
* Equation to find Length, Width, and the size of one of the sides of the square which will be cut from the corners
  + x=sqrt(A)/6 units
    - x=the size of one of the sides of the square which will be cut from the corners
  + y=2\*sqrt(A)/3 units
    - y=width
  + z=2\*sqrt(A)/3 units
    - z=length
* Equation for the max volume
  + 2\*A^(3/2)/27 cubic units

What will be given:

* Area

What we need to figure out:

* x
* y
* z