

### Answer on Question #53194 – Math – Geometry

Express the dimensions of a rectangular prism in terms of  $x, y, z$ , and in a factored form

#### Solution

$a = 2(xy + xz + yz)$  is surface area of a rectangular prism

$$x = \frac{a - 2yz}{2(y + z)}$$

$$y = \frac{a - 2xz}{2(x + z)}$$

$$z = \frac{a - 2xy}{2(x + y)}$$