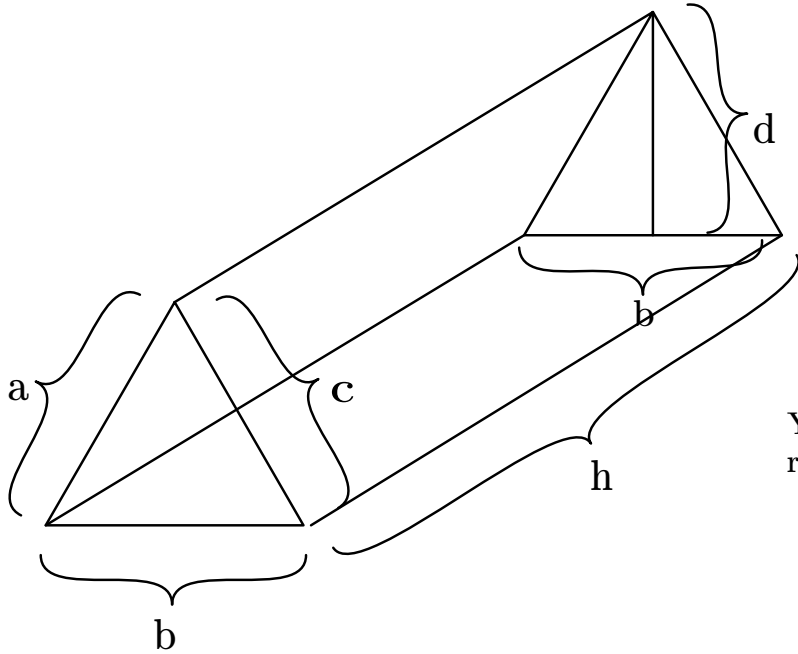


$$\begin{aligned}
 \text{Surface Area of Triangular Prism} &= \text{Lateral Area} + \text{Area of Bases} \\
 &= \text{Perimeter of Triangle} \times \text{Height} + 2 \text{ Area of Base} \\
 &= (a+b+c) \times h + 2 \left(\frac{1}{2} \text{ base of triangle} \times \text{height of triangle} \right) \\
 &= (a+b+c) \times h + 2 \left(\frac{1}{2} \times b \times d \right) \\
 &= (a+b+c) \times h + bd
 \end{aligned}$$



You can also visualize the area as that of three rectangles and two triangles.

