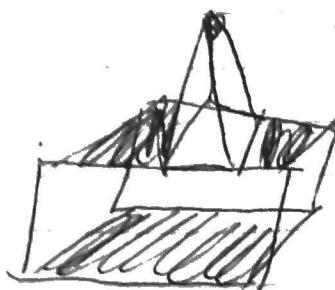


LT G1a  
● Composite shape

How do I find the volume  
and Surface Area of a composite shape?



Triangular Prism

rectangular prism

Volume

Triangular Prism + Rectangular Prism

$$\frac{b \cdot h}{2} \cdot H + L \cdot w \cdot H$$

$$\frac{12.8}{2} \cdot 5 + 19.5 \cdot 7$$

$$240 + 665$$

Volume: 905 ft<sup>3</sup>

Surface Area

Rectangular Prism

$$19.5 + 2 \cdot 19.7 + 2 \cdot 5 \cdot 7 + 19.5 - 5.12$$

Surface Area = 46.6

Triangular Prism

$$\frac{12.8}{2} + 2 \cdot 16 \cdot 5$$

$$\text{Surface Area } 46.6 + 256 = 722 \text{ ft}^2$$

# Homework

- Your task is to find one composite shape in the real world
- Take a picture of it/Draw a Sketch
- Find the dimensions
- Find the volume and surface area of the composite shape
- If you are struggling feel free to come see me and I can help you "find" a shape