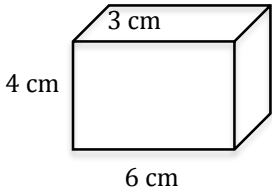
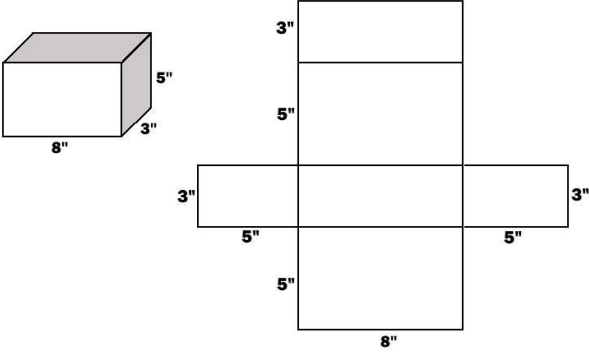


- CCSS: 6.G.2
- Learning Objective: Perimeter and Area

➤ Academic Vocabulary:

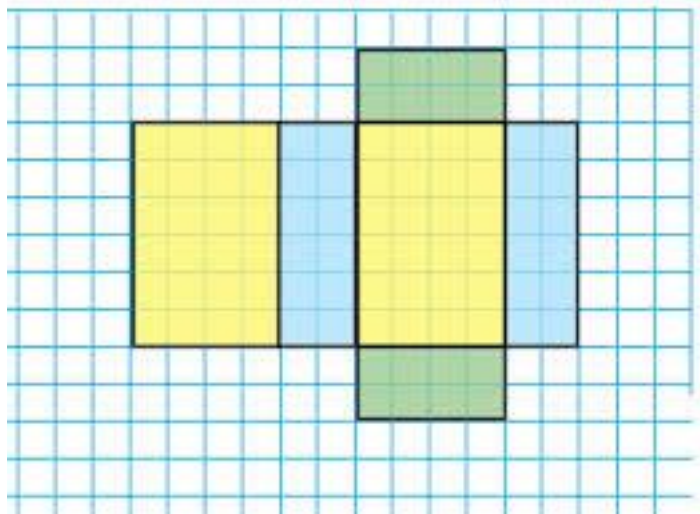
- Volume
- Surface Area
- Nets

➤ Examples:

<p>1. Rectangular Prism</p> 	<p>Volume = $l \cdot w \cdot h$</p> <p>$6\text{cm} \cdot 3\text{cm} \cdot 4\text{cm}$</p> <p>$72\text{ cm}^3$</p>	<p>Volume = area of base \cdot height</p> <p>$(6\text{cm} \cdot 3\text{cm}) \cdot 4\text{cm}$</p> <p>$18\text{cm}^2 \cdot 4\text{cm}$</p> <p>$72\text{ cm}^3$</p>
<p>2.</p> 		<p>Volume</p> <p>$8\text{in} \cdot 3\text{in} \cdot 5\text{in}$</p> <p>$120\text{ in}^3$</p> <p>or</p> <p>$(8\text{in} \cdot 3\text{in}) \cdot 5\text{in}$</p> <p>$24\text{in}^2 \cdot 5\text{in}$</p> <p>$120\text{ in}^3$</p>
<p>Surface Area</p> <p>Area of Rectangle 1:</p> <p>$3\text{ in} \cdot 8\text{ in}$</p> <p>$24\text{ in}^2$</p>	<p>Area of Rectangle 2:</p> <p>$5\text{ in} \cdot 8\text{ in}$</p> <p>$40\text{ in}^2$</p>	<p>Area of Rectangle 3:</p> <p>$3\text{ in} \cdot 8\text{ in}$</p> <p>$24\text{ in}^2$</p>
<p>Area of Rectangle 4:</p> <p>$5\text{ in} \cdot 8\text{ in}$</p> <p>$40\text{ in}^2$</p>	<p>Area of Rectangle 5:</p> <p>$3\text{ in} \cdot 5\text{ in}$</p> <p>$15\text{ in}^2$</p>	<p>Area of Rectangle 5:</p> <p>$3\text{ in} \cdot 5\text{ in}$</p> <p>$15\text{ in}^2$</p>
<p>Surface Area</p> <p>$24\text{ in}^2 + 40\text{ in}^2 + 24\text{ in}^2 + 40\text{ in}^2 + 15\text{ in}^2 + 15\text{ in}^2$</p> <p>$158\text{ in}^2$</p>		

➤ Practice:

Find the surface area of the net below.



If you put the net together, what figure would you create and what would its volume be?

Reflection:

Describe the differences between the volume and surface area of the figure above.
