

Worksheet 3: Building a Grade Level Concept (Calculating Surface Area)

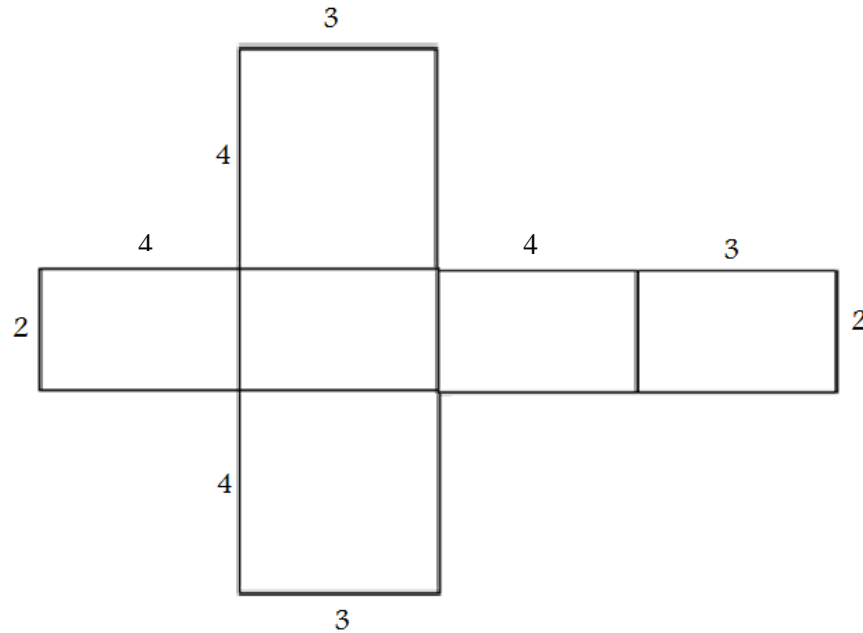
$$\text{surface area} = 2(\text{length} \times \text{height}) + 2(\text{height} \times \text{width}) + 2(\text{width} \times \text{length})$$

$$\text{surface area} = 2\left(\frac{\quad}{\text{length}} \times \frac{\quad}{\text{height}}\right) + 2\left(\frac{\quad}{\text{height}} \times \frac{\quad}{\text{width}}\right) + 2\left(\frac{\quad}{\text{width}} \times \frac{\quad}{\text{length}}\right)$$

$$\text{surface area} = \underline{\hspace{10em}}$$

Worksheet 3: Generalization

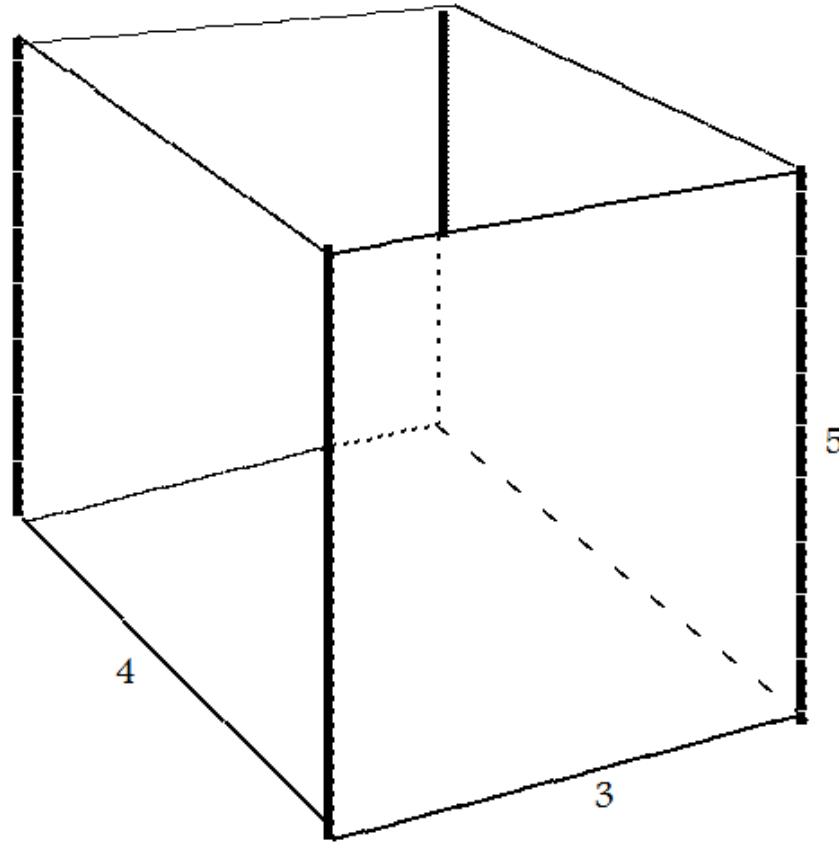
Mr. Williams has a file cabinet in his classroom that he wants to paint. He made a net on paper so he can calculate the surface area of the file cabinet in order to buy enough paint. Can you calculate the surface area of file cabinet?



$$\underline{\hspace{2cm}} = 2(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + 2(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + 2(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$$

surface area length height height width width length

What is the surface area of the box shown below?



$$\underline{\hspace{2cm}} = 2(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + 2(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + 2(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$$

surface area length height height width width length