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	Area and Volume
Objective 1	Calculate the Area of a Figure
	Recall that the perimeter of a figure is a one-dimensional length and is express as ft, cm, in., etc. But area involves 2 dimensions. For rectangles we measure its length and width and then multiply the two together. Since we are multiplying these two lengths together, area is a two-dimensional quantity and is expressed as ft ² , cm ² , in ² , etc. The formula for the area of a rectangle is:
	$\begin{bmatrix} A = length \cdot wldth - or - A = l \cdot w \end{bmatrix}$
	Example 1: Find the area of the given rectangle. 5 cm
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Objective 2	Calculate the Area of a Composite Figure In many cases we need to partition our figure so that it consists of familiar shapes such as parallelograms, rectangles, trapezoids, or triangles. The total area is the sum of the individual areas.
	Example 6: Find the area of the figure below. 4 in. 6 in. 7 in. 12 in.
	Partition the figure into two rectangles. Notice that you 4 in. only need the lengths related to the dimensions of each 12 in. individual rectangle. 4 in. 3 in. 12 in. 12 in. 12 in. 12 in.



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Objectíve З	Calculate the Volume of a Rectangular Prísm
	Recall that the area of a figure is a two- dimensional quantity and is express as ft ² ,
	But volume involves 3 dimensions. For rectangles we measure its length, width, and height then find the product of these three
	lengths. Sínce we are multiplying these three lengths together, volume is a three- dímensional avantity and is expressed as
	ft^3 , cm ³ , in ³ , etc. (The formula for the volume of
	a rectangular prísm ís: V=length · wídth · heíght -or-
	$A = l \cdot w \cdot h$ height
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