Volume of Prisms

As you recall, volume is the number of <u>cubic</u> examples of how to measure volume are <u>in</u> ³		
A prism is a 3 - dimensional object with 2 parallel and polygons and rectangles	congruent and all the rest of the fo	_ bases that are aces are
To find the volume of a prism, you could fill the object with and then count them very carefully. Another way to find the volume of a prism is to use the formula below:		
	Bh	
B -> the area of the base		
The distance between the basis (or the # of layers)		
Find the volume of the two prisms below using the formula above.		
1. 2 mm	2. 5 m	7 m
$V = Bh \qquad B = \frac{\text{area of}}{\text{transle}}$ $V = (52 \text{mm}^2)(2 \text{mm}) \qquad \frac{1}{52}(13)(8)$	12 m	18 m Bearca of
	V=Bh	Bearca of trapezoid \$\frac{1}{2}(5+12)^7
V= 104mm3	V=(59.5)18	59.5
	V= 1071m3	

As you did in last night's homework, write the formulas for the volume of the given objects. Rectangular solid ... V= LWH Cube ... V= C3 Cylinder ... V= TTC2 Some questions to consider... > Is a rectangular solid a prism? <u>Ves</u> Is a cube a prism? <u>yes</u>Is a cylinder a prism? <u>no</u> Some ideas to think about... The rectangular solid and the cube are prisms. Therefore, the formula V= Bh should work for them as well. How are the formulas really the same? V= l.w.h = The l.w = the area of the rectangular base(B)
V= e.e. = The e.e = the area of the square base(B) The ______ is not a prism. However, how is the formula, V= _____ similar to the formula V= Bh for the prism? Tris the area of a circle; the cylinder has bases that are circles. Find the volume for the figures below using the formula, V= Bh. 6. 9 cm 7 cm