

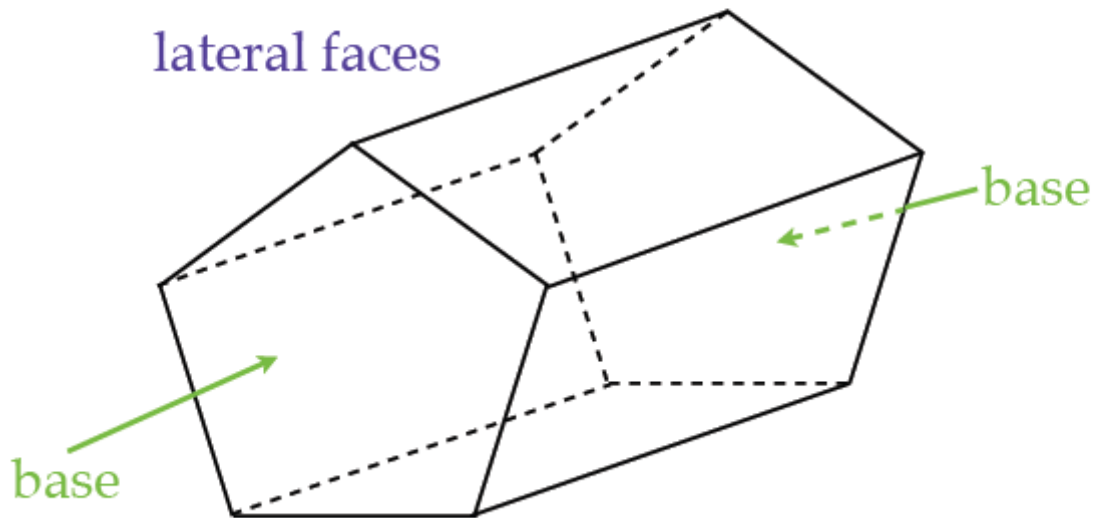
## TOPIC 13-3: SURFACE AREA & VOLUME OF PRISMS

### Prism

#### Surface Area of a Prism

$S.A.$  = Area of 2 Bases + Area of Lateral Faces

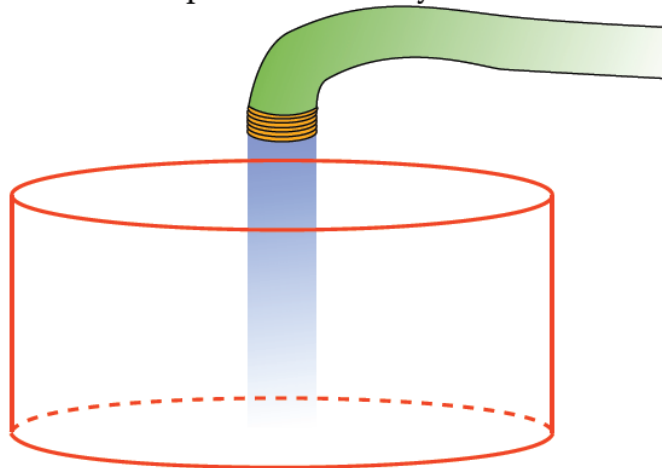
$$S.A. = 2B + LA$$



### Volume

the measure of the amount of space enclosed by a three-dimensional figure

the amount water it takes to fill the cylinder represents the volume of the cylinder.



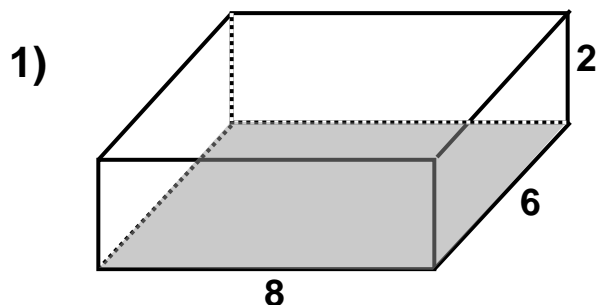
**SURFACE AREA**

	Lateral	Total
Prism	$S = Ph$	$S = Ph + 2B$

**VOLUME**

Prism or cylinder	$V = Bh$
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**EXAMPLES:** For each of the following prisms, name the prism and find its Lateral Area, Total Area, and Volume.



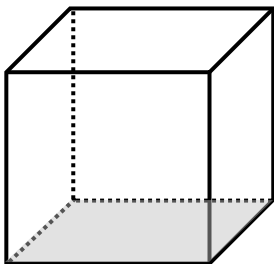
Name: \_\_\_\_\_

LA = \_\_\_\_\_

TA = \_\_\_\_\_

V = \_\_\_\_\_

2) In the prism below all edges have a length of 5 cm.



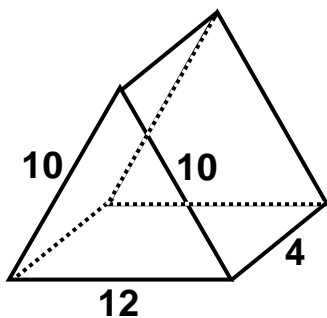
Name: \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Total Area = \_\_\_\_\_

Volume = \_\_\_\_\_

3)



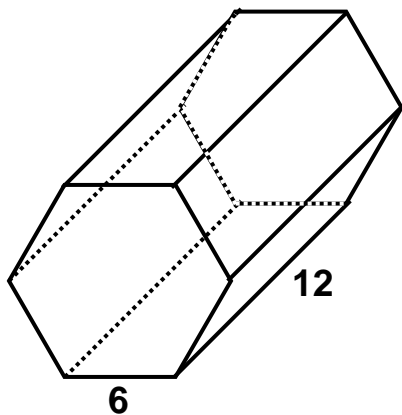
Name: \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Total Area = \_\_\_\_\_

Volume = \_\_\_\_\_

4)



Name: \_\_\_\_\_

Lateral Area = \_\_\_\_\_

Total Area = \_\_\_\_\_

Volume = \_\_\_\_\_