

**LEQ: What are the steps needed to find surface area?**

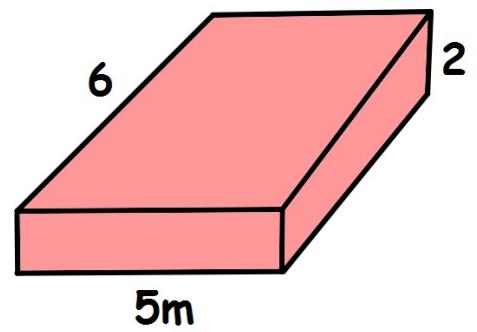
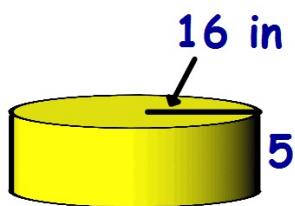
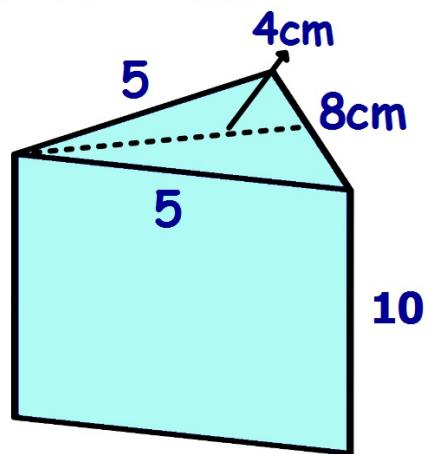
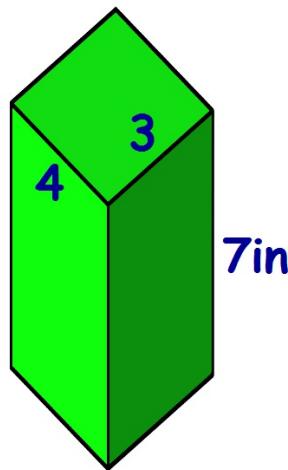
### **Surface Area**

Why is the shape of the base of a 3D shape important when finding surface area?

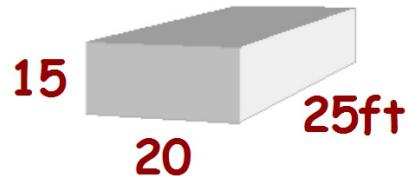
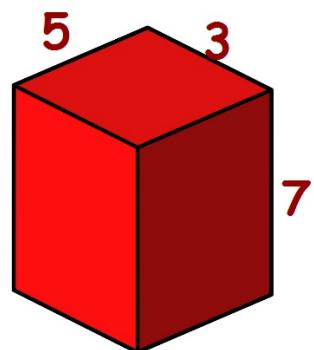
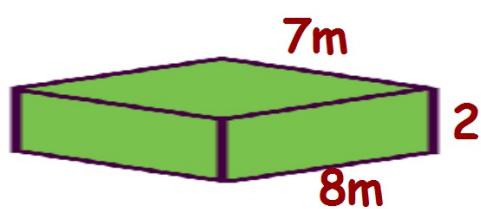
the amount of space covering a 3-D figure

1. **redraw the base**
2. **area of base**
3. **perimeter of base**
4. **height of the prism between the bases**
5. **Formula:**  
$$SA = 2B + PH$$

Let's find some SA with the formulas....



$$SA = 2B + PH$$



Base Area

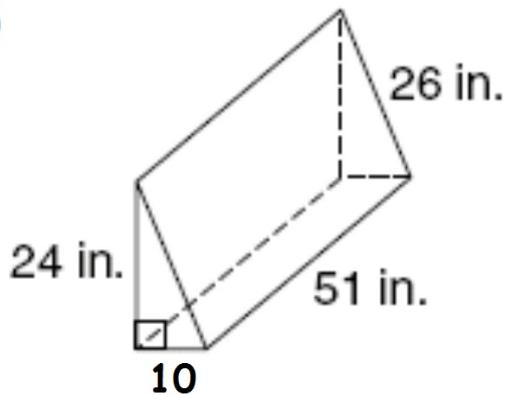
Perimeter

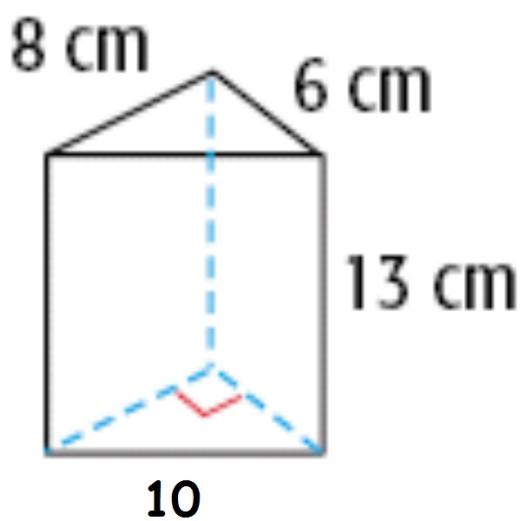
Height  
(number between the  
bases)

$SA=2B + PH$

- 1] redraw the base
- 2] find B (area of the base)
- 3] find P (perimeter of base)
- 4] Formula  
 $SA = 2B + PH$

Ex)

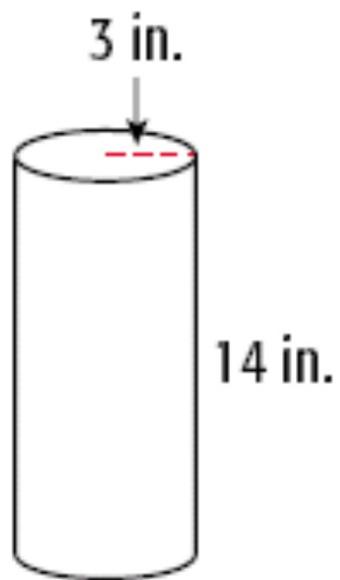




- 1] redraw the base
- 2] find B (area of the base)
- 3] find P (perimeter of base)
- 4] Formula  
$$SA = 2B + PH$$

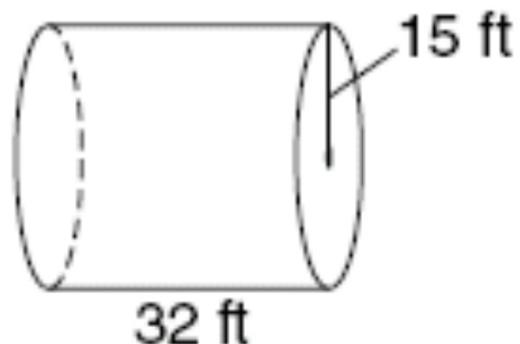
- 1] redraw the base
- 2] find  $B$  (area of the base)
- 3] find  $P$  (perimeter of base)
- 4] Formula

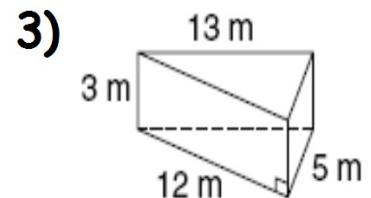
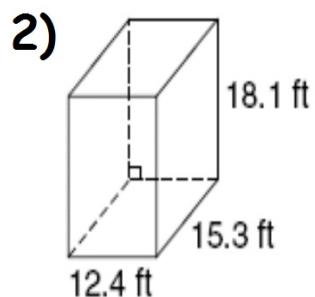
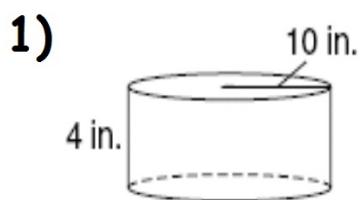
$$SA = 2B + PH$$



- 1] redraw the base
- 2] find  $B$  (area of the base)
- 3] find  $P$  (perimeter of base)
- 4] Formula

$$SA = 2B + PH$$





- 1] redraw the base
  - 2] find  $B$  (area of the base)
  - 3] find  $P$  (perimeter of base)
  - 4] Formula
- $SA = 2B + PH$