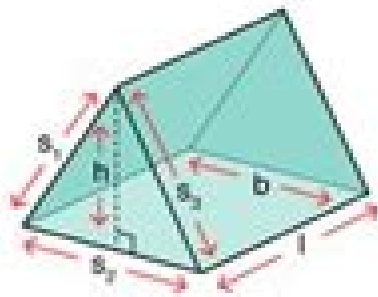


# Surface Area of Prisms

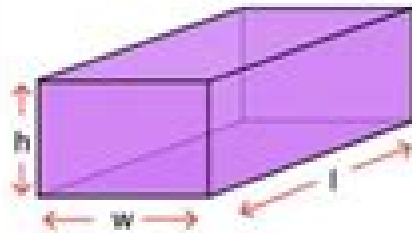
## Triangular



**Surface Area (SA)**  
 $= b \times h + (s_1 + s_2 + s_3) \times l$

here,  
 $s_1, s_2, & s_3$  = base edges,  
 $b = s_1, l$  = length,  $h$  = height

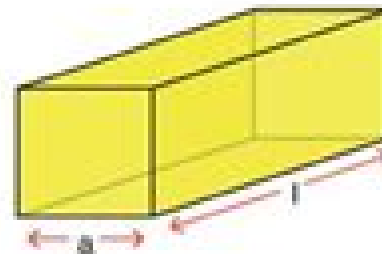
## Rectangular



**Surface Area (SA)**  
 $= 2(lw + wh + lh)$

here,  
 $l$  = length,  $w$  = width,  
 $h$  = height

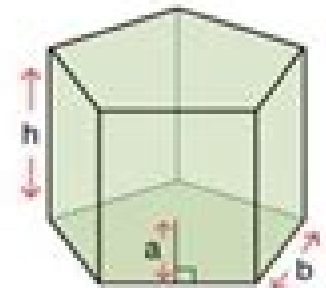
## Square



**Surface Area (SA)**  
 $= 2a^2 + 4al$

here,  
 $a$  = base edge,  $l$  = length

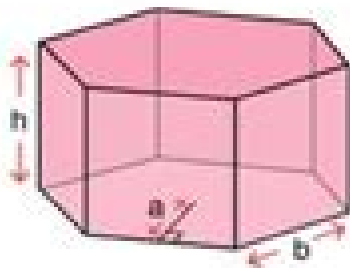
## Pentagonal



**Surface Area (SA)**  
 $= 5ab + 5bh$

here,  
 $a$  = apothem,  $b$  = base edge,  
 $h$  = height

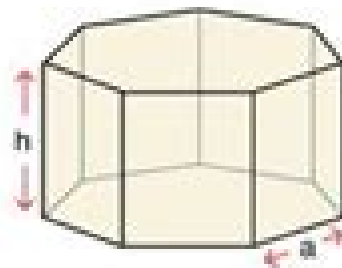
## Hexagonal



**Surface Area (SA)**  
 $= 6ab + 6bh$

here,  
 $a$  = apothem,  
 $b$  = base edge,  
 $h$  = height

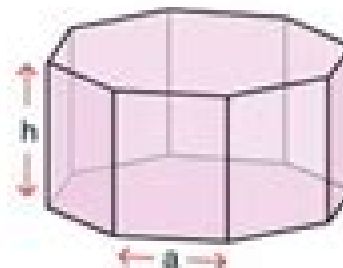
## Heptagonal



**Surface Area (SA)**  
 $= \frac{7}{2} \times a^2 \times \cot\left(\frac{\pi}{7}\right) + 7ah$

here,  
 $a$  = base edge,  $h$  = height,  
 $n = 180^\circ$

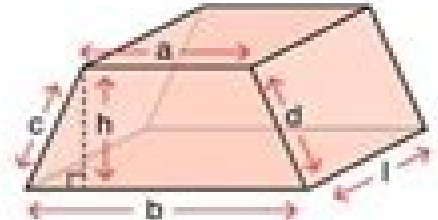
## Octagonal



**Surface Area (SA)**  
 $= 4(1 + \sqrt{2})a^2 + 8ah$

here,  
 $a$  = base edge,  
 $h$  = height

## Trapezoidal



**Surface Area (SA)**  
 $= (a + b) \times h + (a + b + c + d) \times l$

here,  
 $a$  = long base edge,  
 $b$  = short base edge,  
 $c$  &  $d$  = slant base edges,  
 $h$  = height,  $l$  = length

# Measurements In Geometry Surface Area Of Prisms

## Page 158

**John Macnie**



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