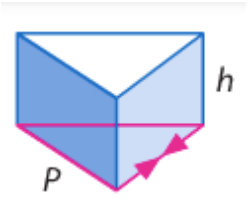
12-2 / 12-4

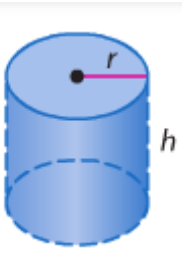
Lateral Area, Surface Area and

Volume of Prisms and Cylinders

Lateral Area

Total area of all the sides EXCLUDING the bases.



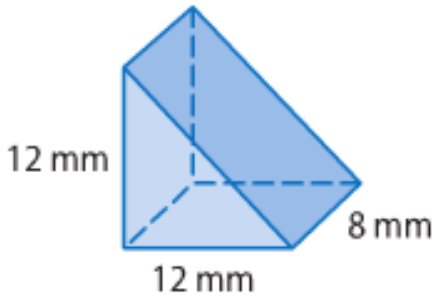


LA = PH

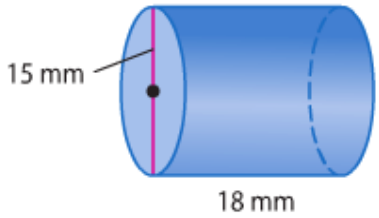
P = Perimeter of Base

H = Height of Solid
(distance between bases)

Find the Lateral Area of the Triangular Prism



Find the Lateral Area of the Cylinder

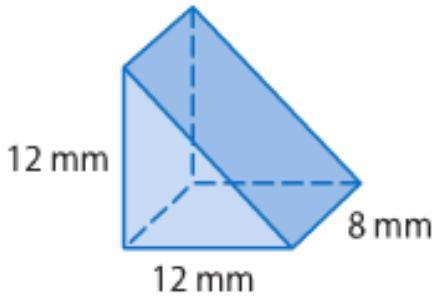


SURFACE AREA

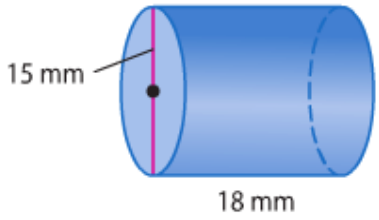
Total area of all surfaces, Lateral Area + Area of Bases

$SA = PH + 2B$ B = Area of Base

Find the Surface Area of the Triangular Prism



Find the Surface Area of the Cylinder

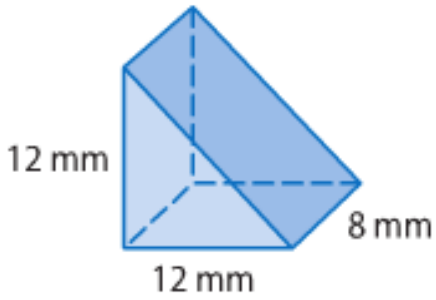


VOLUME

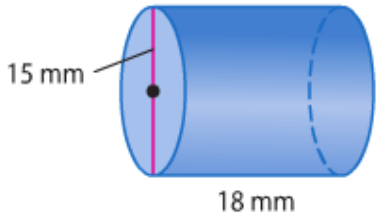
Amount of space located inside the solid

$$V = BH$$

Find the Volume of the Triangular Prism



Find the Volume of the Cylinder



Find the Lateral Area, Surface Area and Volume of the Trapezoidal Prism