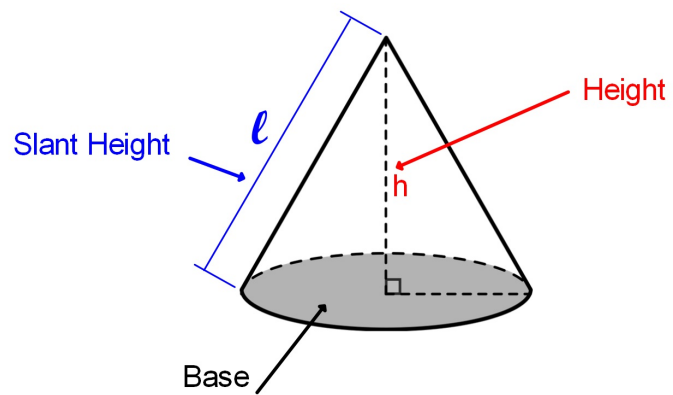
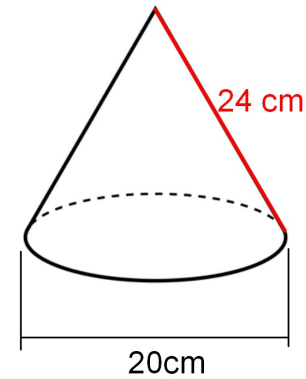


Cone:

Like a Pyramid but the Base is a Circle



Find the SA of this cone. Leave your answer in terms of π

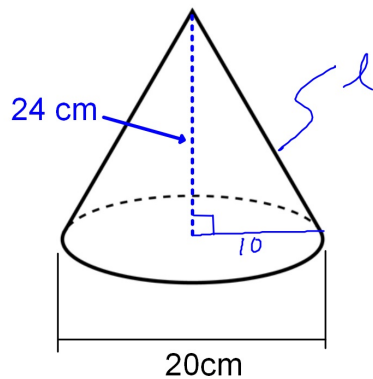


$$SA = \pi 10^2 + \pi 10 \cdot 24$$

$$100 + 240$$

$$340\pi$$

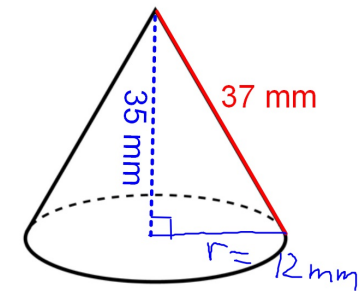
Find the SA of this cone. Leave your answer in terms of π



$$\pi (10)^2 + \pi (10)(24)$$

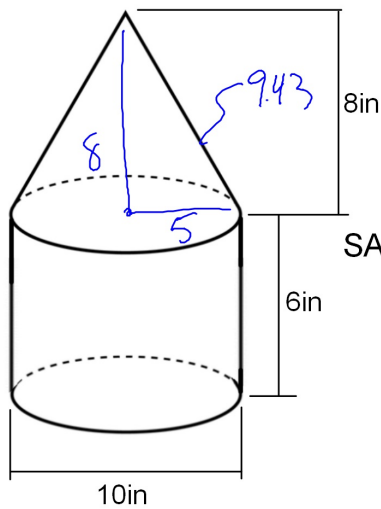
$$340\pi$$

Find the SA of this cone. Leave your answer in terms of π



$$SA = \pi (12)^2 + \pi (12)(37)$$

$$588\pi \text{ mm}^2$$



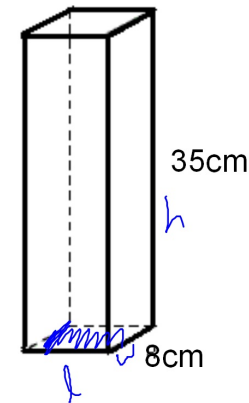
Find the SA of this figure to the nearest hundredth.

$$\text{SA} = \text{LA of a Cone} + \text{LA of a Cylinder} + \text{Circle}$$

$$\begin{aligned} & \pi r l \\ & + 2\pi r h \\ & + \pi r^2 \\ & + \pi(5)(9.43) \\ & + \pi(5)(6) \\ & + \pi(5)^2 \\ & \underline{520.91} \end{aligned}$$

Sec 11-4: Volumes of Prisms and Cylinders

Find the volume of this Square Prism:

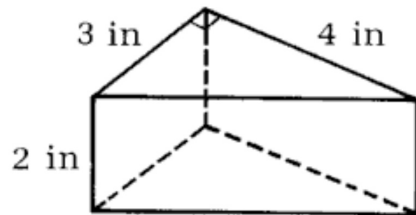


$$\text{Volume of a Box} = \ell \cdot w \cdot h = B \cdot h$$

Area of the Base

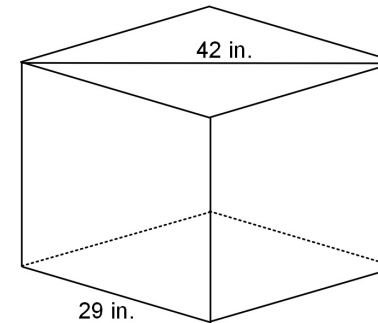
$$\text{Volume of a Prism} = B \cdot h$$

Find the volume of this Right Triangular Prism.



$$\begin{aligned} V &= Bh = (6 \text{ in}^2)(2 \text{ in}) \\ &= 12 \text{ in}^3 \\ \frac{1}{2}bh &= \frac{1}{2}(3)(4) \\ &= 6 \text{ in}^2 \end{aligned}$$

Find the volume of this Rhomboidal Prism.



$$\begin{aligned} V &= (840 \text{ in}^2)(30 \text{ in}) \\ &= 25200 \text{ in}^3 \\ B &= \frac{1}{2}(42)(29) = 609 \text{ in}^2 \end{aligned}$$

Volume of a Prism: $V = Bh$

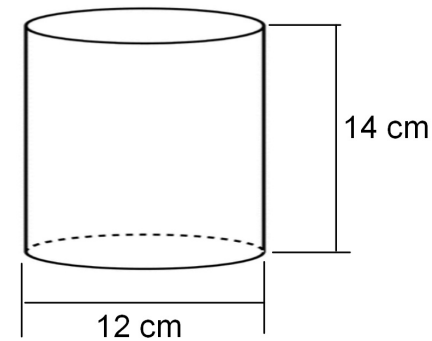
Volume of a Cylinder: $V = Bh$

Base is a circle

Area of a circle = πr^2

$$V = \pi r^2 h$$

Find the volume of this cylinder. Give your answer in terms of π .

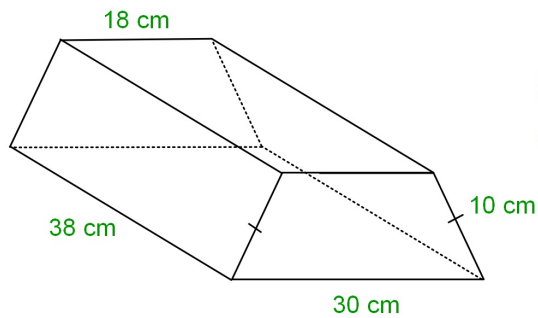


$$V = \pi r^2 \cdot h$$

$$\pi (6)^2 \cdot 14$$

$$V = 504\pi \text{ cm}^3$$

Find the volume of this solid.

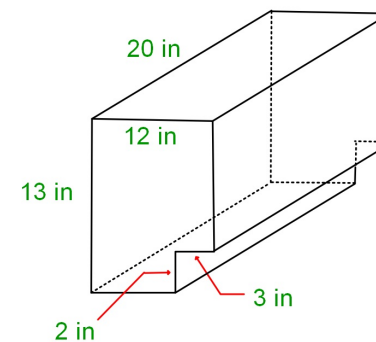


$$V = Bh$$

$$= (192 \text{ cm}^2) / (38 \text{ cm}) = 1286 \text{ cm}^3$$

$$B = 192$$

Find the volume of this solid.
All angles are right angles.

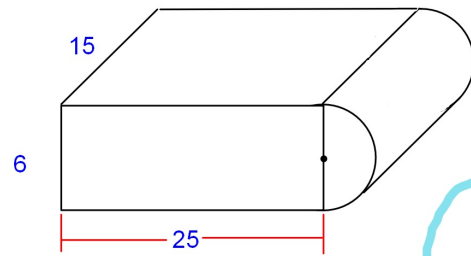


$$A = 150$$

$$V = Bh = (150)(20)$$

$$3000 \text{ in}^3$$

Find the volume of this solid to the nearest hundredth.



$$\text{Box} + \frac{1}{2} \text{ cyl} \\ (25)(6)(15) + \pi(3)^2 5$$

$$2674.12$$