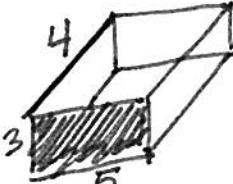
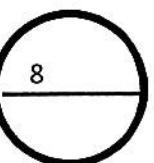
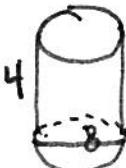
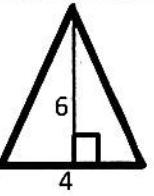
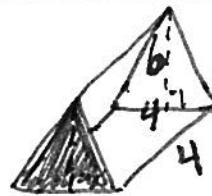
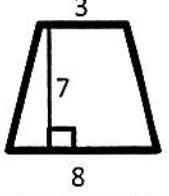
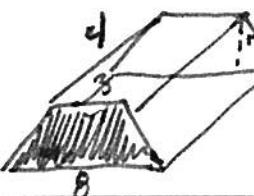


$B = \text{Area of base}$

$$B = l \cdot w$$

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Volume of Prisms, Pyramids, Cylinders, Cones, and Spheres

2D Shape	Area of 2D shape	Draw: Prism with 2D Base (h=4)	Volume of Prism	Draw: Pyramid with 2D Base (h=4)	Volume of Pyramid
	$A = l \cdot w$ $A = 5 \cdot 3$ $A = 15$		$V = l \cdot w \cdot h$ $V = Bh$ $V = 15(4) = 60$		$V = \frac{1}{3}Bh$ $V = \frac{1}{3}(15)4$ $V = 20$
	$A = \pi r^2$ $A = \pi 4^2$ $A = 16\pi$		$V = Bh$ $V = \pi r^2 h$ $V = 16\pi(4) = 64\pi$		$V = \frac{1}{3}Bh$ $V = \frac{1}{3}(16\pi)4$ $V = \frac{64}{3}\pi$
	$A = \frac{1}{2}bh$ $A = \frac{1}{2}(4)(6)$ $A = 12$		$V = Bh$ $V = \frac{bh}{2}(h)$ $V = 12(4) = 48$		$V = \frac{1}{3}Bh$ $V = \frac{1}{3}(12)(4)$ $V = 16$
	$A = \frac{1}{2}(b_1 + b_2)h$ $A = \frac{1}{2}(3+8)7$ $A = 38.5$		$V = Bh$ $V = 38.5(4)$ $V = 154$		$V = \frac{1}{3}Bh$ $V = \frac{1}{3}(38.5)(4)$ $V = 51.33$

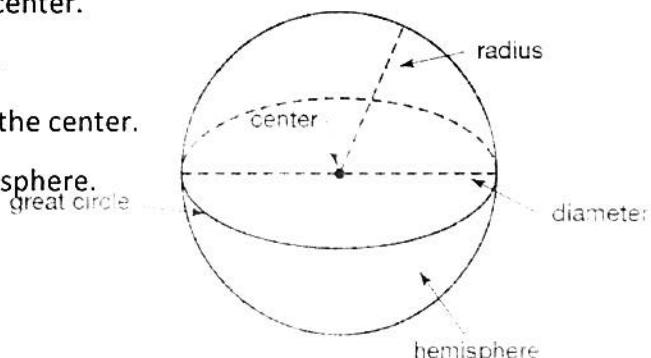
A sphere is the set of all points in three dimensions that are equidistant from a given point called the center.

The radius of a sphere is a line segment drawn from the center of the sphere to a point on the sphere.

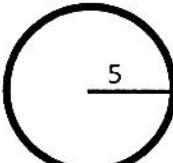
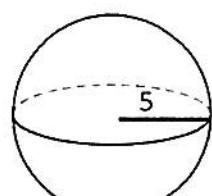
The diameter of a sphere is a line segment drawn between two points on the sphere passing through the center.

A great circle of a sphere is a cross section of a sphere when a plane passes through the center of the sphere.

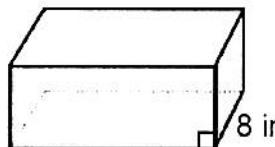
A hemisphere is half of a sphere bounded by a great circle.



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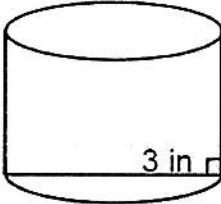
Circle	Radius/Area of Circle	Circumference of Circle	Sphere	Circumference of Sphere	Radius/Volume of Sphere
	$A = \pi r^2$ $A = 25\pi$	$C = 2\pi r$ $C = \pi d$ $C = 10\pi$		$C = \pi d$ $C = 10\pi$	$V = \frac{4}{3}\pi r^3$ $V = \frac{4}{3}\pi 5^3$ $V = 125 \cdot \frac{4}{3} \cdot \pi$ $V = \frac{500}{3}\pi$

$$V = Bh$$

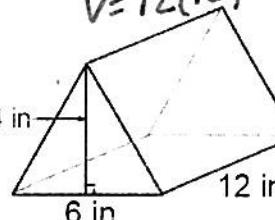
$$V = 88(4) = 352$$


Volume: 352 in^3

Volume Practice

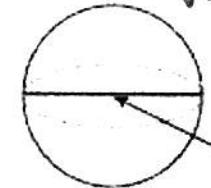


Volume: $9\pi \text{ or } 28.27 \text{ in}^3$

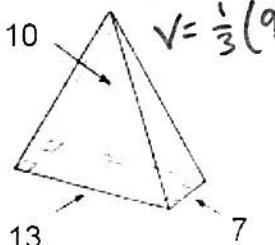


Volume: 144 in^3

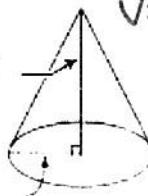
$$V = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi (1.5)^3$$


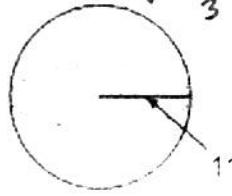
Volume: $4.5\pi \text{ or } 14.14 \text{ in}^3$



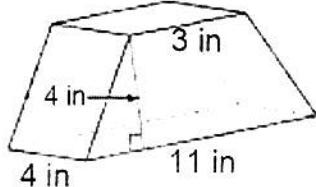
Volume: 303.23 in^3



Volume: $33\pi \text{ or } 103.67 \text{ in}^3$



Volume: $1774.66\pi \text{ or } 5575.28 \text{ in}^3$



Volume: 112 in^3