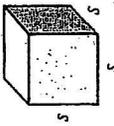
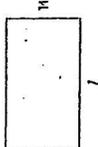
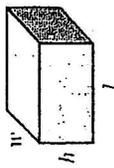
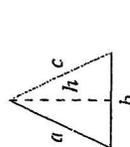
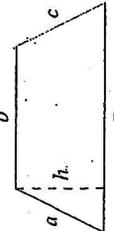
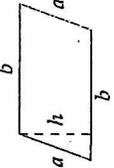
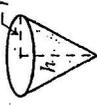


DEFINITIONS

Geometry Formulas

The **perimeter** is the sum of the lengths of all the sides of a figure.
 The **area** is the amount of space enclosed by a two-dimensional figure measured in units squared.
 The **surface area** of a solid is the sum of the areas of the surfaces of a three-dimensional figure.
 The **volume** is the amount of space occupied by a three-dimensional figure measured in units cubed.
 The **radius** r of a circle is the line segment that extends from the center of the circle to any point on the circle.
 The **diameter** of a circle is any line segment that extends from one point on the circle through the center to a second point on the circle. The diameter is two times the length of the radius, $d = 2r$.
 In circles, we use the term **circumference** to mean the perimeter.

Plane Figures	Formulas	Solids	Formulas
Square 	Area: $A = s^2$ Perimeter: $P = 4s$	Cube 	Volume: $V = s^3$ Surface Area: $S = 6s^2$
Rectangle 	Area: $A = lw$ Perimeter: $P = 2l + 2w$	Rectangular Solid 	Volume: $V = lwh$ Surface Area: $S = 2lw + 2lh + 2wh$
Triangle 	Area: $A = \frac{1}{2}bh$ Perimeter: $P = a + b + c$	Sphere 	Volume: $V = \frac{4}{3}\pi r^3$ Surface Area: $S = 4\pi r^2$
Trapezoid 	Area: $A = \frac{1}{2}h(b + a)$ Perimeter: $P = a + b + c + B$	Right Circular Cylinder 	Volume: $V = \pi r^2 h$ Surface Area: $S = 2\pi r^2 + 2\pi rh$
Parallelogram 	Area: $A = bh$ Perimeter: $P = 2a + 2b$	Cone 	Volume: $V = \frac{1}{3}\pi r^2 h$
Circle 	Area: $A = \pi r^2$ Circumference: $C = 2\pi r = \pi d$	Surface Area: $S = \pi r^2 + \pi r \sqrt{r^2 + h^2}$	