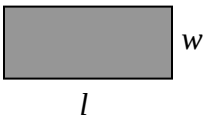
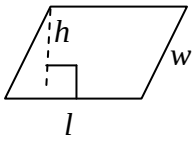
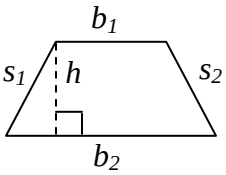
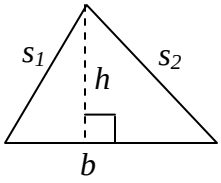
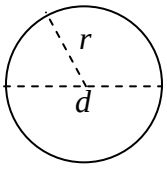
Geometry Formulas

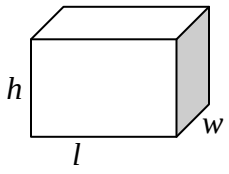
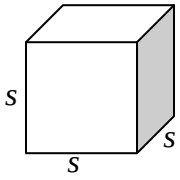
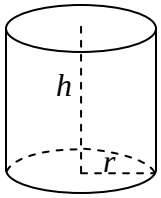
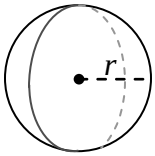
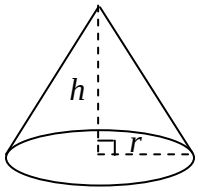
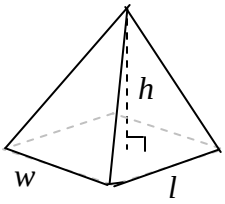
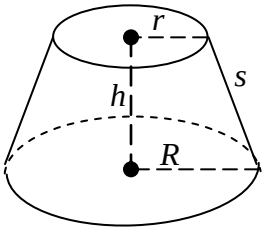
Areas and Perimeters

Figure	Sketch	Area	Perimeter
Square		$A = s^2$	$P = 4s$
Rectangle		$A = lw$	$P = 2l + 2w$
Parallelogram		$A = lh$	$P = 2l + 2w$
Trapezoid		$A = \frac{1}{2}h(b_1 + b_2)$	$P = s_1 + s_2 + b_1 + b_2$
Triangle		$A = \frac{1}{2}bh$	$P = s_1 + s_2 + b$

Area and Circumference of a Circle

Circle		$A = \pi * r^2$	$C = 2\pi * r$ or $C = \pi * d$

Volumes and Surface Areas of Three- Dimensional Figures

Figure	Sketch	Volume	Surface Area (S)
Rectangular Solid		$V = lwh$	$S = 2lh + 2wh + 2wl$
Cube		$V = s^3$	$S = 6s^2$
Right Circular Cylinder		$V = \pi * r^2 h$	$S = 2\pi * rh + 2\pi * r^2$
Sphere		$V = \frac{4}{3}\pi * r^3$	$S = 4\pi * r^2$
Right Circular Cone		$V = \frac{1}{3}\pi * r^2 h$	$S = \pi * r\sqrt{r^2 + h^2}$
Square or Rectangular Pyramid		$V = \frac{1}{3}lwh$	
Frustum of Right Circular Cone		$V = \frac{\pi(r^2 + rR + R^2)h}{3}$	$S = \pi * s(R + r)$