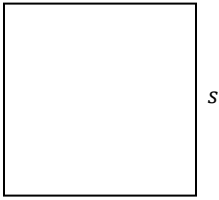


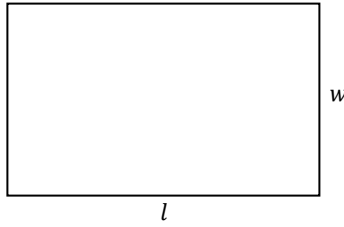
## Perimeter and Area

Square



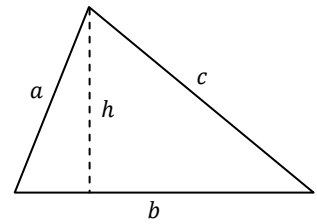
Perimeter:  $P = 4s$   
 Area:  $A = s^2$

Rectangle



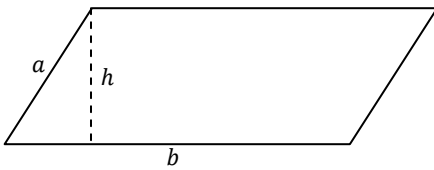
Perimeter:  $P = 2l + 2w$   
 Area:  $A = lw$

Triangle



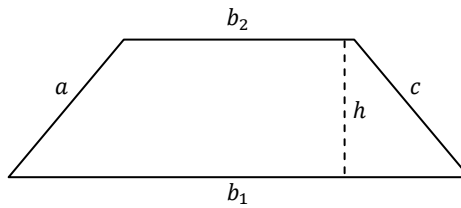
Perimeter:  $P = a + b + c$   
 Area:  $A = \frac{bh}{2}$

Parallelogram



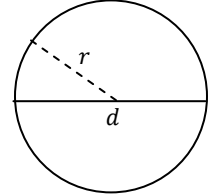
Perimeter:  $P = 2a + 2b$   
 Area:  $A = bh$

Trapezoid



Perimeter:  $P = a + b_1 + c + b_2$   
 Area:  $\frac{1}{2}(b_1 + b_2) \cdot h$

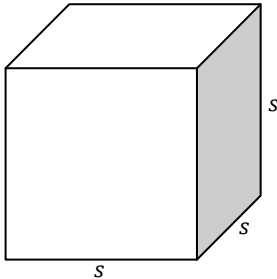
Circle



Circumference:  $C = 2\pi r$  or  $C = \pi d$   
 Area:  $A = \pi r^2$

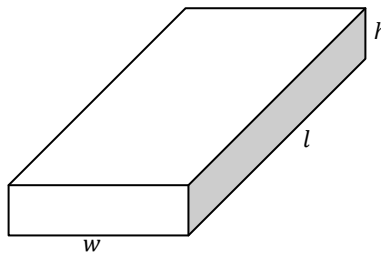
## Volume & Surface Area

Cube



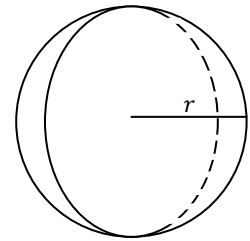
Volume:  $V = s^3$   
 Surface Area:  $S = 6s^2$

Rectangular Prism (Box)



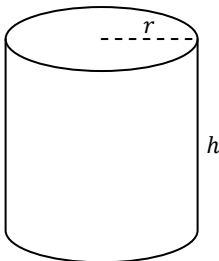
Volume:  $V = lwh$   
 Surface Area:  $S = 2lh + 2wh + 2wl$

Sphere



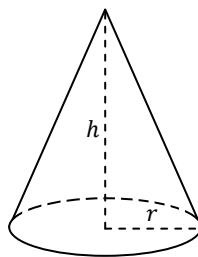
Volume:  $V = \frac{4}{3}\pi r^3$   
 Surface Area:  $S = 4\pi r^2$

Cylinder



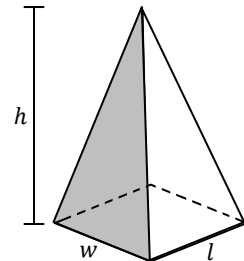
Volume:  $V = \pi r^2 h$   
 Surface Area:  $S = 2\pi r h + 2\pi r^2$

Cone



Volume:  $V = \frac{1}{3}\pi r^2 h$   
 Surface Area:  $S = \pi r \sqrt{r^2 + h^2}$

Square or Rectangle Pyramid



Volume:  $V = \frac{1}{3}lwh$