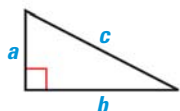


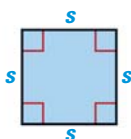
# Geometric Formulas

## Pythagorean Theorem (p. 737)



In a right triangle,  $a^2 + b^2 = c^2$  where  $a$  and  $b$  are the lengths of the legs and  $c$  is the length of the hypotenuse.

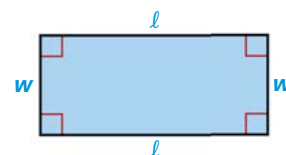
## Square (p. 924)



**Area**  
 $A = s^2$

**Perimeter**  
 $P = 4s$

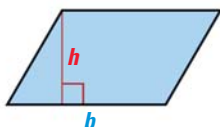
## Rectangle (p. 924)



**Area**  
 $A = lw$

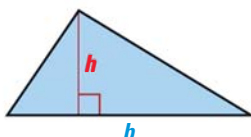
**Perimeter**  
 $P = 2l + 2w$

## Parallelogram (p. 924)



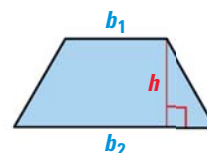
**Area**  
 $A = bh$

## Triangle (p. 924)



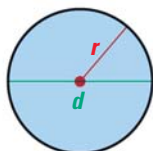
**Area**  
 $A = \frac{1}{2}bh$

## Trapezoid (p. 924)



**Area**  
 $A = \frac{1}{2}(b_1 + b_2)h$

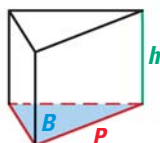
## Circle (p. 926)



**Circumference**  
 $C = \pi d$  or  
 $C = 2\pi r$

**Area**  
 $A = \pi r^2$

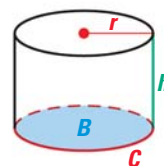
## Prism (p. 927)



**Surface Area**  
 $S = 2B + Ph$

**Volume**  
 $V = Bh$

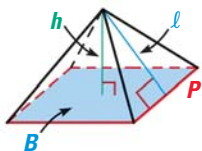
## Cylinder (p. 927)



**Surface Area**  
 $S = 2B + Ch$   
 $= 2\pi r^2 + 2\pi rh$

**Volume**  
 $V = Bh$   
 $= \pi r^2 h$

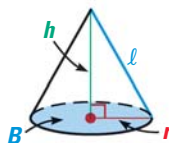
## Pyramid (p. 927)



**Surface Area**  
 $S = B + \frac{1}{2}Pl$

**Volume**  
 $V = \frac{1}{3}Bh$

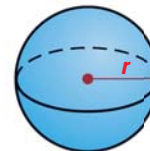
## Cone (p. 927)



**Surface Area**  
 $S = B + \pi rl$   
 $= \pi r^2 + \pi rl$

**Volume**  
 $V = \frac{1}{3}Bh$   
 $= \frac{1}{3}\pi r^2 h$

## Sphere (p. 927)



**Surface Area**  
 $S = 4\pi r^2$

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