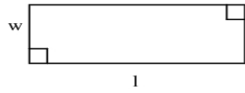


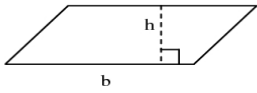
Name: \_\_\_\_\_

## 8<sup>th</sup> grade Formula Sheet

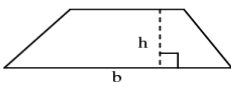


$$P = 2l + 2w$$

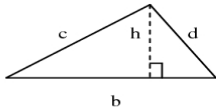
$$A = lw$$



$$A = bh$$

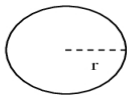


$$A = \frac{1}{2}h(a + b)$$



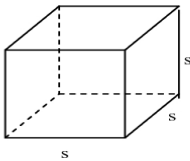
$$P = b + c + d$$

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



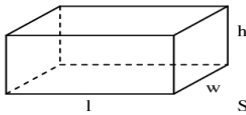
$$C = 2\pi r$$

$$A = \pi r^2$$



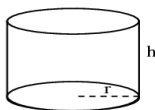
$$SA = 6s^2$$

$$V = s \cdot s \cdot s$$

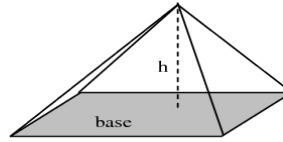


$$SA = 2lw + 2lh + 2wh$$

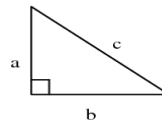
$$V = lwh$$



$$V = \pi r^2 h$$



$$V = \frac{1}{3}(\text{area of base}) \times h$$



**Pythagorean Theorem:**

$$a^2 + b^2 = c^2$$

**Distance:**  $d = rt$

**Simple Interest:**  $I = prt$

**Degrees in a polygon:**

$$\text{Sum of angle measures} = 180(n - 2)$$

where  $n$  = number of sides

**Temperature Conversions:**

$$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$$

**Customary Conversions:**

1 mile (mi) = 5,280 feet (ft)  
 1 yard (yd) = 3 feet (ft)  
 1 foot (ft) = 12 inches (in)

1 ton (T) = 2,000 pounds (lb)  
 1 pound (lb) = 16 ounces (oz)

1 gallon (gal) = 4 quarts (qt)  
 1 quart (qt) = 2 pints (pt)  
 1 pint (pt) = 2 cups (c)  
 1 cup (c) = 8 fluid ounces (fl oz)

1 year (yr) = 365 days (d)  
 1 day (d) = 24 hours (hr)  
 1 hour (hr) = 60 minutes (min)  
 1 minute (min) = 60 seconds (sec)

**Metric Conversions:**

Km Hm Dm m dm cm mm