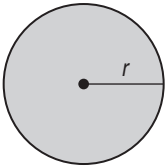


# LEAP 21

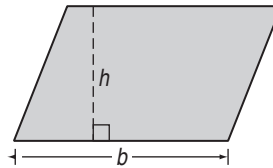
## Mathematics Reference Sheet

**Circle**



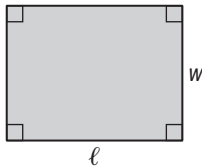
$\pi \approx 3.14$   
 Area =  $\pi \cdot r^2$   
 Circumference =  $2\pi \cdot r$

**Parallelogram**



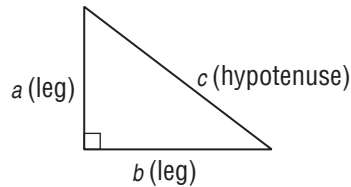
Area =  $b \cdot h$

**Rectangle**

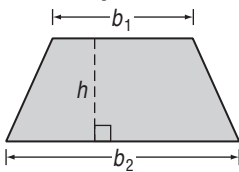


Area =  $\ell \cdot w$   
 Perimeter =  $2(\ell + w)$

**Pythagorean Theorem:**  $a^2 + b^2 = c^2$

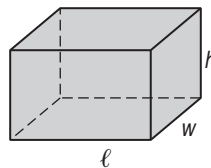


**Trapezoid**



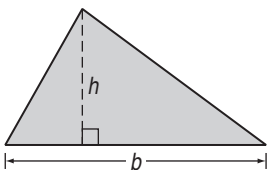
Area =  $\frac{1}{2}h(b_1 + b_2)$

**Rectangular Solid**



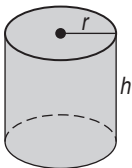
Volume =  $\ell \cdot w \cdot h$   
 Surface Area =  $2w\ell + 2\ell h + 2wh$

**Triangle**



Area =  $\frac{1}{2}b \cdot h$

**Cylinder**



Volume =  $\pi r^2 h$   
 Surface Area =  $2\pi \cdot r^2 + 2\pi \cdot r \cdot h$

**Distance Formula: distance = rate · time**

- Mean:** In a collection of data, the sum of all the data divided by the number of data
- Median:** The middle number or average of the two middle numbers in a collection of data when the data are arranged in order
- Mode:** The number or numbers that occur most often in a collection of data
- Range:** The difference between the greatest and the least numbers in a collection of data

**Metric Units of Length**

- 1 kilometer = 1,000 meters
- 1 centimeter = 0.01 meter
- 1 millimeter = 0.001 meter

**U.S. Unit Conversions**

- 8 fluid ounces = 1 cup
- 2 cups = 1 pint
- 2 pints = 1 quart
- 4 quarts = 1 gallon
- 16 ounces = 1 pound
- 5,280 feet = 1 mile