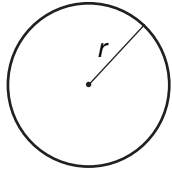


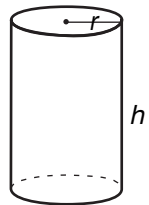
# Mathematics 7 Reference Sheet

## Circle



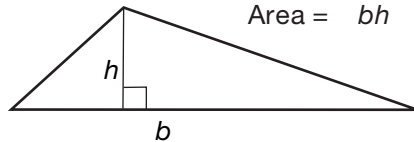
Area =  $\pi r^2$   
Circumference =  $2\pi r$   
Circumference =  $\pi d$

## Cylinder



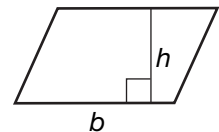
Volume =  $\pi r^2 h$   
Surface Area =  $2\pi r^2 + 2\pi r h$

## Triangle



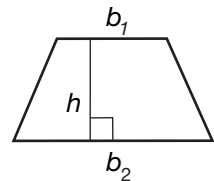
Area =  $bh$

## Parallelogram



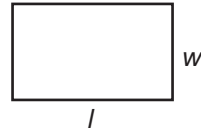
Area =  $bh$

## Trapezoid



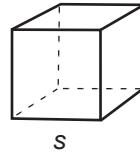
Area =  $\frac{1}{2}h(b_1 + b_2)$

## Rectangle



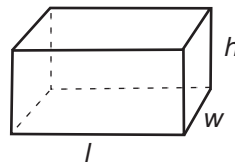
Area =  $lw$   
Perimeter =  $2l + 2w$

## Cube



Volume =  $s^3$   
Surface Area =  $6s^2$

## Rectangular Prism



Volume =  $lwh$   
Surface Area =  $2wl + 2lh + 2wh$

## Definitions

<b>MEAN:</b>	The sum of a set of numbers divided by the number of elements in the set.
<b>MEDIAN:</b>	The middle number or average of the two middle numbers in a collection of data when the data are arranged in order.
<b>MODE:</b>	The number or numbers that occur most often in a collection of data.
<b>RANGE:</b>	The difference between the greatest and the least numbers in a collection of data.
<b>REFLECTION OR FLIP:</b>	A mirror image of a figure across a line of symmetry.
<b>TRANSLATION OR SLIDE:</b>	A change in position of a figure. All points in the figure move in the same direction for the same distance.
<b>ROTATION OR TURN:</b>	Turning a figure clockwise or counterclockwise about a point.

## DISTANCE

**TRAVELED: distance = rate  $\times$  time**

## Customary Conversions

8 ounces = 1 cup  
2 cups = 1 pint  
2 pints = 1 quart  
4 quarts = 1 gallon  
8 pints = 1 gallon  
3 teaspoons = 1 tablespoon  
16 tablespoons = 1 cup  
16 ounces = 1 pint  
16 ounces = 1 pound  
5280 feet = 1 mile

## Metric Conversions

kilo-	hecto-	deka-	UNIT	deci-	centi-	milli-
k	h	da	meter (m) liter (l) gram (g)	d	c	m