Mathematics 7 Reference Sheet



Area = πr^2 Circumference = $2\pi r$

Rectangle



Area = lw Perimeter = 21 + 2w

Trapezoid



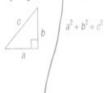
Triangle



Parallelogram



Pythagorean Tyeorem



Cylinder



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

Cube



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

Sphere



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

Rectangular Prism



Volume = Iwh Surface Area = 2wl + 2lh + 2whLateral Area = 2(l + w)h

1 Millimeter

Metric Units of Length

1 Kilometer	=	1000 meters
1 Hectometer	=	100 meters
1 Dekameter	=	10 meters
1 Meter	=	1 meter
1 Decimeter	=	0.1 meter
1 Centimeter	=	0.01 meter

Definitions

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.

The number or numbers that occur most MODE:

often in a collection of data.

RANGE: The difference between the greatest and the least numbers in a collection of data.

DISTANCE

distance = rate x time TRAVELED:

REFLECTION A mirror image of a figure across its

OR FLIP:

line of symmetry.

TRANSLATION A change in position of a figure. All OR SLIDE: points in the figure move in the same

0.001 meter

ROTATION

OR TURN:

direction for the same distance.

Turning a figure clockwise or counter-clockwise about a point.

English Conversions

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