

## TNReady Math Reference Sheet—High School

1 inch = 2.54 centimeters  
 1 mile = 5,280 feet  
 1 mile = 1,760 yards  
 1 mile = 1.609 kilometers  
 1 kilometer = 0.62 mile  
 1 meter = 39.37 inches  
  
 1 pound = 16 ounces  
 1 pound = 0.454 kilograms  
 1 kilogram = 2.2 pounds  
 1 ton = 2,000 pounds  
  
 1 cup = 8 fluid ounces  
 1 pint = 2 cups  
 1 quart = 2 pints  
 1 gallon = 4 quarts  
 1 gallon = 3.785 liters  
 1 liter = 0.264 gallons  
 1 liter = 1,000 cubic centimeters

Exponential Growth:  $y = a(1 + r)^t$

Exponential Decay:  $y = a(1 - r)^t$

Compound Interest:  $A = P\left(1 + \frac{r}{n}\right)^{nt}$

Continually Compounding Interest:  
 $A = Pe^{rt}$

Arithmetic Sequence:  $a_n = a_1 + (n - 1)d$

Geometric Sequence:  $a_n = a_1(r)^{n-1}$

Finite Geometric Series:  $S_n = \frac{a_1(1 - r^n)}{1 - r}$

Degrees: 1 degree =  $\frac{\pi}{180}$  radians

Radians: 1 radian =  $\frac{180}{\pi}$  degrees