



COLLEGE AND CAREER READY INTERIM ASSESSMENT

High School Mathematics Assessment Reference Sheet

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 mile = 5280 feet

1 mile = 1760 yards

1 mile = 1.609 kilometers

1 kilometer = 0.62 mile

1 pound = 16 ounces

1 pound = 0.454 kilograms

1 kilogram = 2.2 pounds

1 ton = 2000 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 = 1000 cubic centimeters

Triangle

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

Quadratic
Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Parallelogram

$$A = bh$$

Arithmetic
Sequence

$$a_n = a_1 + (n - 1)d$$

Circle

$$A = \pi r^2$$

Geometric
Sequence

$$a_n = a_1 r^{n-1}$$

Circle

$$C = \pi d \text{ or } C = 2\pi r$$

Geometric Series

$$S_n = \frac{a_1 - a_1 r^n}{1 - r} \text{ where } r \neq 1$$

General Prisms

$$V = Bh$$

Radians

$$1 \text{ radian} = \frac{180}{\pi} \text{ degrees}$$

Cylinder

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

Degrees

$$1 \text{ degree} = \frac{\pi}{180} \text{ radians}$$

Sphere

$$V = \frac{4}{3}\pi r^3$$

Cone

$$V = \frac{1}{3}\pi r^2 h$$

Pyramid

$$V = \frac{1}{3}Bh$$